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# Ontario Road Safety Annual Report

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**Ontario  
Road Safety  
Annual  
Report**

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If you are seeking information on how to reduce your risk of being in a collision, visit your local Ministry of Transportation office for the latest copy of the Driver's Handbook and other driver manuals and leaflets, or call the ministry at 1-800-268-0637. In addition, you may wish to borrow a road safety video from the Ontario Safety League 416-620-1720.

For more information on this data in this publication, please contact the Safety Research Office at 416-235-3585.

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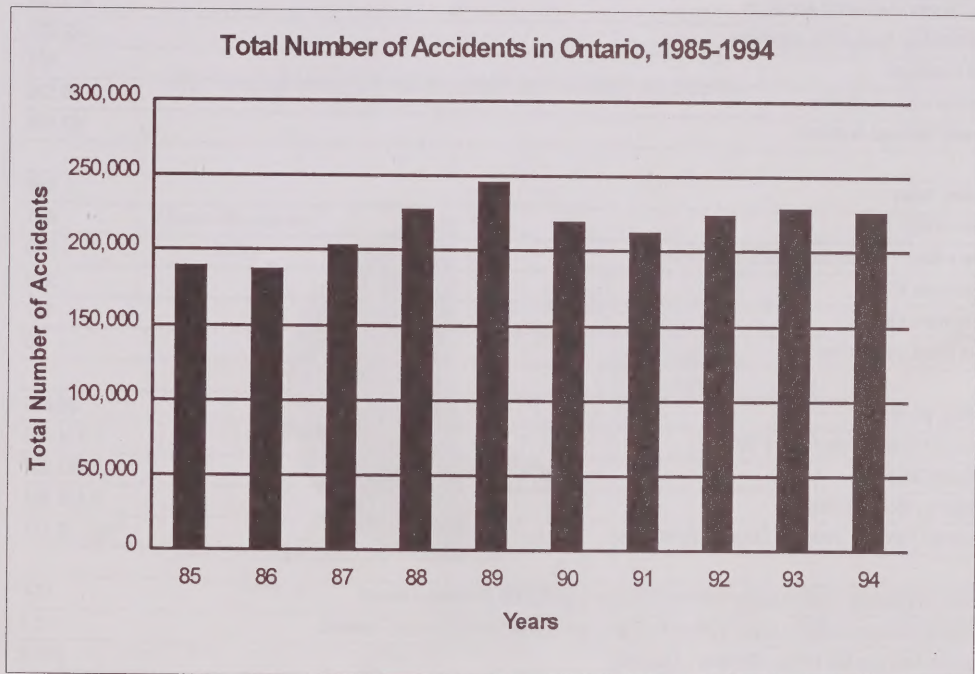
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## 1

## Overview



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**1a. Synopsis**

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**Selected Statistics**

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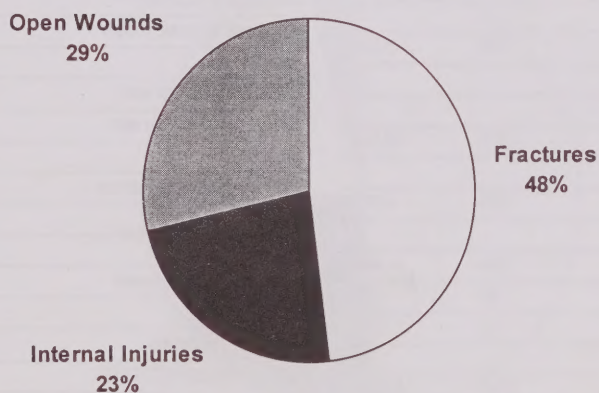
Total Reportable Accidents	226,996
Total Drivers Involved in Accidents	405,024
Total Vehicles Involved in Accidents	422,207
Fatal Accidents	875
Personal Injury Accidents	58,525
Property Damage Accidents	167,596
<hr/>	
Persons Killed	999
Drivers Killed	591
Drivers Killed (Impaired or Had Been Drinking)	200
Passengers Killed	273
Pedestrians Killed	127
Other Road Users Killed	8
<hr/>	
Persons Injured	90,030
Estimated Ontario Population (1991)	9,624,670
Licensed Drivers	6,983,960
Registered Motor Vehicles	6,406,581
Estimated Vehicle Kilometers Traveled (in millions)	78,167
<hr/>	
Number of Persons Killed in Motor Vehicle Accidents per 100,000 People in Ontario	10.4
Number of Persons Killed in Motor Vehicle Accidents per 100 Million Kilometers Traveled	1.3
Accident Rate per 100 Million Kilometers Traveled	290.4
Fatal Accident Rate per 100 Million Kilometers Traveled	1.1



**1b. Selected Characteristics of Motor Vehicle Accidents in 1993**

On January 1, 1988 a new Motor Vehicle Accident Report Form was introduced. These data includes the changes which were made on the form used by the police forces in Ontario, which forms the basis for the accident statistics compiled by the province of Ontario. This has resulted in changes in the ways in which the data are compiled. As a result, some of the information may not be directly comparable to data from years prior to 1988.

**Per Cent of Hospital Admissions by Vehicle Accidents**



**1c. The Health Perspective****Selected Diagnoses of Motor  
Vehicle Accident Injuries  
Hospitalized in Ontario, 1993/94**

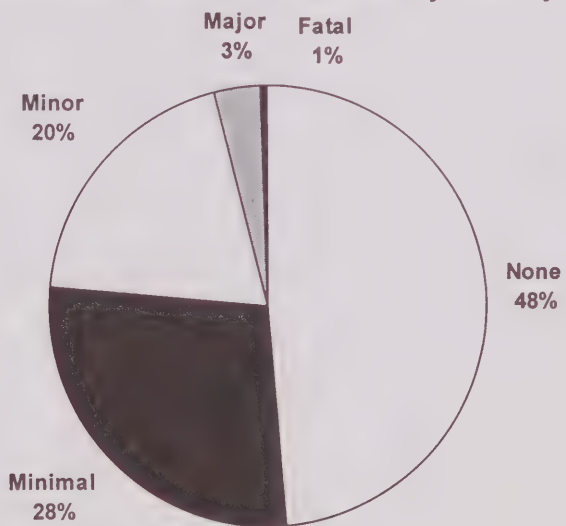
Selected Diagnoses	Hospital Admissions	Hospital Days of Stay
Fracture of skull	564	7,490
Fracture of neck and trunk	1,483	21,928
Fracture of upper limb	620	3,301
Fracture of lower limb	1,597	20,591
Dislocation, sprains and strains	428	1,939
Intracranial injury, excluding those with skull fracture	1,623	23,943
Internal injury of chest, abdomen and pelvis	619	5,978
Open wound of head, neck and trunk	335	989
Open wound of upper limb	50	227
Open wound of lower limb	85	582
Other injuries, burns and traumatic complications	2,349	63,107
<b>Total Admissions and Days</b>	<b>9,753</b>	<b>150,075</b>

**Selected Surgical Procedures for  
Motor Vehicle Accident Injuries  
Hospitalized in Ontario, 1994**

Selected Procedure	Hospital Admissions	Hospital Days of Stay
Operations on skull, brain and cerebral meninges	196	14,136
Operations on spinal cord and canal structures	58	1,066
Operations on nose, mouth and pharynx	75	355
Operations on chest wall, pleura, mediastinum and diaphragm	122	1,384
Operations on bone marrow and spleen	87	1,244
Operations on kidney	56	378
Operation on facial bones and joints	178	1,571
Reduction of fracture and dislocation	1,842	23,053
Repair and plastic operations on joint structures	164	2,454
Operations on skin and subcutaneous tissue	564	3,928
Other surgical procedure	696	16,001
<b>Sub-total of surgical admission and days</b>	<b>4,038</b>	<b>65,570</b>
<b>No surgical procedures reported</b>	<b>5,693</b>	<b>103,024</b>
<b>Total Admissions and Days</b>	<b>9,731</b>	<b>168,594</b>

## 2

## The People

**Number of Involved Persons in Accidents by Severity of Injury**



**2a. People in Accidents****Table 2.1**  
**Category of Involved Person by Severity of Injury**  
**in Fatal and Personal Injury Accidents 1994**

Category of Involved Person	Severity of Injury					Total
	None	Minimal	Minor	Major	Fatal	
Drivers	52,801	28,271	18,471	2,890	508	102,941
Passenger*	32,015	16,263	11,397	1,837	273	61,785
Pedestrian	144	2,051	2,576	717	127	5,615
Cyclist	49	1,719	1,400	164	27	3,359
Cyclist Passenger	21	49	35	11	-	116
All Terrain Vehicle Driver	4	8	10	5	3	30
All Terrain Vehicle Passenger	3	1	4	1	-	9
Snow Vehicle Driver	16	11	28	13	3	71
Snow Vehicle Passenger	5	5	11	6	1	28
Motorcycle Driver	125	523	717	286	50	1,701
Motorcycle Passenger	44	110	153	61	4	372
Moped Driver	10	11	10	-	-	31
Moped Passenger	6	3	1	-	-	10
Hanger On	47	29	38	24	1	139
Other	1,093	61	40	9	2	1,205
<b>Total</b>	<b>86,383</b>	<b>49,115</b>	<b>34,891</b>	<b>6,024</b>	<b>999</b>	<b>177,412</b>

\* Includes bus passengers

Due to a change in the method of tabulating accident statistics this table excludes individuals involved in property damage only accidents.

Fatal	Person killed immediately or within 30 days of the motor vehicle accident.
Major	Person admitted to hospital. Includes person admitted for observation.
Minor	Person went to hospital and was treated in the emergency room but was not admitted.
Minimal	Person did not go to hospital when leaving the scene of the accident. Includes minor abrasions, bruises and complaint of pain.
None	Uninjured person.

Table 2.2 Category of Person Killed by Age Groups 1994

Category of Person	Age Groups															Total	
	0-4	5-9	10-15	16	17	18	19	20	21-24	25-34	35-44	45-54	55-64	65-74	75+	UK	
Drivers	-	-	-	5	11	16	17	11	50	119	101	53	38	52	34	1	508
Passenger*	13	13	23	12	14	9	11	8	27	32	28	23	19	19	21	1	273
Pedestrian	7	4	6	-	6	3	1	3	8	19	11	8	9	18	24	-	127
Cyclist	-	5	6	1	2	1	1	-	2	2	2	1	-	1	1	2	27
Cyclist Passenger	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATV Driver	-	-	2	-	-	-	-	-	1	-	-	-	-	-	-	-	3
ATV Passenger	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Snow Vehicle Driver	-	-	-	-	-	-	-	-	1	2	-	-	-	-	-	-	3
Snow Vehicle Passenger	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1
Motorcycle Driver	-	-	1	-	1	4	2	4	4	15	11	6	1	1	-	-	50
Motorcycle Passenger	-	-	-	-	-	-	-	1	1	2	-	-	-	-	-	-	4
Moped Driver	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Moped Passenger	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	1	-	-	1	1	-	-	3
<b>Total</b>	<b>20</b>	<b>22</b>	<b>38</b>	<b>18</b>	<b>34</b>	<b>33</b>	<b>32</b>	<b>27</b>	<b>94</b>	<b>193</b>	<b>153</b>	<b>91</b>	<b>68</b>	<b>92</b>	<b>80</b>	<b>4</b>	<b>999</b>

\* Includes 1 hangers on

UK = Unknown

Table 2.3 Category of Persons Injured by Age Groups 1994

Category of Person	Age Groups															Total	
	0-4	5-9	10-15	16	17	18	19	20	21-24	25-34	35-44	45-54	55-64	65-74	75+	UK	
Driver	60	1	59	654	1,191	1,329	1,313	1,323	5,275	13,739	10,605	7,065	3,673	2,272	993	80	49,632
Passenger*	1,443	1,932	2,750	1,018	1,114	1,057	1,043	861	2,879	5,263	3,330	2,344	1,701	1,387	780	688	29,570
Pedestrian	186	485	814	141	96	103	99	90	394	827	595	435	354	364	252	109	5,344
Cyclist	16	291	884	130	89	86	86	84	293	568	278	140	72	49	16	201	3,283
Cyclist Passenger	3	9	26	4	4	2	4	1	12	23	10	4	2	1	2	-	107
ATV Driver	-	-	13	-	-	1	2	2	1	3	-	-	-	-	1	-	23
ATV Passenger	1	-	3	-	-	2	-	-	-	-	-	-	-	-	-	-	6
Snow Vehicle Driver	-	-	16	5	3	1	1	3	3	15	5	-	-	-	-	-	52
Snow Vehicle Passenger	1	-	7	3	1	1	-	-	2	3	2	1	-	-	-	1	22
Motorcycle Driver	4	2	13	31	39	61	64	75	300	499	268	126	23	13	1	7	1,526
Motorcycle Passenger	1	4	21	10	14	17	29	21	63	74	50	13	2	4	-	5	328
Moped Driver	-	-	1	-	1	1	-	1	5	3	3	3	2	-	1	-	21
Moped Passenger	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	2	4
Other	1	2	2	2	4	3	2	1	5	23	23	8	9	7	2	18	112
<b>Total</b>	<b>1,716</b>	<b>2,726</b>	<b>4,609</b>	<b>1,998</b>	<b>2,556</b>	<b>2,664</b>	<b>2,643</b>	<b>2,462</b>	<b>9,232</b>	<b>21,041</b>	<b>15,169</b>	<b>10,140</b>	<b>5,838</b>	<b>4,097</b>	<b>2,048</b>	<b>1,091</b>	<b>90,030</b>

\* Includes 91 hangers on



**Table 2.4 Sex of Driver by  
Class of Accident 1994**

Sex of Driver	Class of Accident			Total
		Personal	Property	
	Fatal	Injury	Damage	
Male	1,154	71,599	206,257	279,010
Female	322	35,828	86,260	122,410
Unknown	9	759	2,836	3,604
Total	1,485	108,186	295,353	405,024

**Table 2.5 Driver Condition by  
Class of Accident 1994**

Condition of	Class of Accident			Total
Driver		Personal	Property	
	Fatal	Injury	Damage	
Normal	954	87,992	238,621	327,567
Had Been Drinking	83	2,690	3,897	6,670
Ability Impaired -				
Alcohol over .08	192	1,679	2,445	4,316
Ability Impaired Alcohol	31	764	847	1,642
Ability Impaired Drugs	6	77	88	171
Fatigue	24	645	840	1,509
Medical Physical Defect	16	441	431	888
Inattentive	37	5,928	12,996	18,961
Other	9	276	522	807
Unknown	133	7,694	34,666	42,493
Total	1,485	108,186	295,353	405,024

Had Been Drinking      Driver had consumed alcohol but his/her physical condition was not legally impaired.

Ability Impaired Alcohol over .08      Driver had consumed alcohol and upon testing was found to have a blood alcohol level in excess of 80 mg%.

Ability Impaired Alcohol      Driver had consumed sufficient alcohol to warrant being charged with a drinking and driving offence.

Inattentive      Driver was operating a motor vehicle without due care and attention or placing less than full concentration on driving, e.g., changing radio stations, consuming food, reading, talking on phone or two-way radio, using headphones.

Table 2.6 Driver Age by Driver Condition In all Accidents 1994\*

Driver	Driver Condition						Total
Age		Had	Impaired	Ability			
		Been	Alcohol	Impaired			
	Normal	Drinking	over .08	Alcohol	Other	Unknown	
Under 16	1,404	14	4	3	273	162	1,860
16	4,587	43	8	8	497	314	5,457
17	8,035	110	35	8	787	539	9,514
18	8,548	150	58	19	779	551	10,105
19	8,309	259	105	49	735	585	10,042
20	7,997	330	120	38	701	605	9,791
21-24	33,723	1,107	585	177	2,415	2,527	40,534
25-34	90,467	2,293	1,481	549	5,502	7,111	107,403
35-44	71,010	1,292	1,104	448	4,015	4,967	82,836
45-54	45,823	558	480	199	2,424	3,135	52,619
55-64	24,950	221	210	84	1,645	1,643	28,753
65-74	14,500	110	87	27	1,266	1,019	17,009
75 & over	5,994	35	11	3	865	393	7,301
Unknown	2,219	148	28	30	432	18,943	21,800
<b>Total</b>	<b>327,566</b>	<b>6,670</b>	<b>4,316</b>	<b>1,642</b>	<b>22,336</b>	<b>42,494</b>	<b>405,024</b>

\* Includes bicyclists, drivers of all-terrain vehicles, etc.

Table 2.7 Recorded Occurrence of Alcohol  
In Drivers Killed 1994\*

Recorded	Drivers	Drivers
Occurrence	Number	%
Apparently Normal	271	57.5
Had Been Drinking	31	6.6
Alcohol over .08	159	33.8
Ability Impaired Alcohol	10	2.1
<b>Total</b>	<b>471</b>	<b>100.0</b>

\* Excludes cases where alcohol usage was unknown and where driver condition was other than normal or alcohol involved.

**Table 2.8** Apparent Driver Action by  
Class of Accident 1994

Apparent Driver Action	Class of Accident			Total
	Fatal	Personal Injury	Property Damage	
Driving Properly	632	50,287	134,622	185,541
Following Too Close	7	7,803	21,365	29,175
Speed Too Fast	117	1,600	2,257	3,974
Speed Too Fast for Conditions	114	6,932	19,386	26,432
Speed Too Slow	4	69	185	258
Improper Turn	25	3,643	12,199	15,867
Disobey Traffic Control	65	5,210	7,984	13,259
Fail to Yield				
Right of Way	81	11,013	30,802	41,896
Improper Passing	23	957	3,403	4,383
Lost Control	178	8,416	23,524	32,118
Wrong Way on				
One Way Road	4	136	250	390
Improper Lane Change	13	1,847	9,598	11,458
Other*	168	7,104	16,377	23,649
Unknown	54	3,169	13,401	16,624
<b>Total</b>	<b>1,485</b>	<b>108,186</b>	<b>295,353</b>	<b>405,024</b>

\* Includes actions defined as careless driving, inattentive driving, fell asleep, hit and run, wrong side of road, improper parking, impaired, illegally parked, dangerous, inexperience, etc.

**Table 2.9** Seat Belt Usage by Severity of Driver Injury in Fatal and Personal Injury Accidents 1994

Safety Equipment Used	Severity of Injury					Total
	Killed	Major	Minor	Minimal	Not Injured	
Seat Belt Used	262	2089	16,152	26,328	43,858	88,689
Other Equipment*	5	38	243	237	150	673
Equipment Not used	186	443	1,040	656	475	2,800
No Safety Equipment	-	6	42	32	98	178
Use Unknown	55	314	994	1,018	8,220	10,601
<b>Total</b>	<b>508</b>	<b>2,890</b>	<b>18,471</b>	<b>28,271</b>	<b>52,801</b>	<b>102,941</b>

\* Other equipment includes helmets, including construction, motorcycle helmets, etc. worn in a motor vehicle. It also includes the use of airbags. Seat belts usage in conjunction with airbag deployment is unknown.



The tables on this page only include seat belt usage in accidents in which there were personal injuries or fatalities. Property damage only accidents are excluded. ORSARs published prior to 1988, included seat belt usage in all accidents.

**Table 2.10**                      **Seat Belt Usage by Severity of Passenger Injury in Fatal and Personal Injury Accidents 1994**

Safety Equipment Used	Severity of Injury					Total
	Killed	Major	Minor	Minimal	Not Injured	
Seat Belt Used	129	1170	8,924	13,744	22,224	46,191
Child Safety Seat						
Used Incorrectly	-	4	17	24	85	130
Child Safety Seat						
Used Correctly	5	12	193	399	1,796	2,405
Other Equipment*	1	9	37	40	44	131
Equipment Not used	79	368	1,122	764	630	2,963
No Safety Equipment	16	84	509	630	1,310	2,549
Use Unknown	43	208	580	610	5,867	7,308
<b>Total</b>	<b>273</b>	<b>1,855</b>	<b>11,382</b>	<b>16,211</b>	<b>31,956</b>	<b>61,677</b>

**Table 2.11**      **Restraints Use for Children (0 - 4 Years) Killed in Accidents 1990-1994**

Year Used	Child Restraint	Child Restraint	Lap/Lap &	Restraint	Available	Use	Total
	Used Correctly	Used Incorrectly	Shoulder Belt	Not Available	Not Used	Unknown	
1990	5	1	7	-	3	4	20
1991	2	1	5	1	3	1	13
1992	8	4	4	3	2	-	21
1993	5	1	5	1	-	-	12
1994	5	-	4	1	2	1	13

**Table 2.12**                      **Restraint Use for Children (0 - 4 Years)**  
**Involved in Fatal and Personal Injury Accidents by Severity of Injury 1994**

Restraint Used	Injury Level		
	Major / Fatal %	Minimal/Minor %	No Injuries %
Child Restraint Used Correctly	20.0	38.0	47.8
Child Restraint Used Incorrectly	4.0	2.2	2.1
Lap/Lap-Shoulder Belt	49.3	49.0	43.5
Not Available	6.7	4.0	2.2
Available/Not Used	16.0	3.9	1.3
Other	-	-	-
Unknown	4.0	2.6	2.9
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

It is known from observation surveys that many child safety seats are not used correctly. This is not clear in these tables since children are often removed from the child safety seat before the police officer arrives on the scene. Both correct installation of the seats according to the manufacturer's instructions and correct use of the device in the vehicle are important for the child's protection.

**Table 2.13**      **Pedestrian Condition by  
Severity of Injury 1994**

Condition of Pedestrian	Killed	Injured
Normal	54	3488
Had Been Drinking	2	291
Ability Impaired Alcohol over .08	21	25
Ability Impaired Alcohol	5	101
Ability Impaired Drugs	-	8
Fatigue	-	1
Medical or Physical Defect	9	97
Inattentive	16	695
Other	2	93
Unknown	18	545
<b>Total</b>	<b>127</b>	<b>5,344</b>

**Table 2.14**      **Apparent Pedestrian Action  
by Severity of Injury 1994**

Apparent Pedestrian Action	Killed	Injured
Crossing Intersection With Right of Way	8	1,359
Crossing Intersection Without Right of Way	27	829
Crossing Intersection No Traffic Control	20	485
Crossing Pedestrian Crossover	-	146
Crossing Marked Crosswalk Without Right of Way	3	105
Walking on Roadway With Traffic	11	146
Walking on Roadway Against Traffic	5	102
On Sidewalk or Shoulder	13	349
Playing or Working on Highway	1	112
Coming from Behind Parked Vehicle or Object	2	221
Running onto Roadway	15	643
Getting On/Off School Bus*	-	13
Getting On/Off Vehicle	2	83
Pushing/Working on Vehicle	1	42
Other	19	709
Unknown	-	-
<b>Total</b>	<b>127</b>	<b>5,344</b>

\* Calendar Year

**2b. Putting the People in Context****Table 2.15 Category of Persons Killed and Injured 1985-1994**

Year	Ontario												
	Population	Driver		Passenger*		Pedestrian		All Others		Persons Killed		Persons Injured	
	(Est.)									In All Classes		In All Classes	
										Rate Per		Rate Per	
		Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Number	100,000	Number	100,000
1985	9,066,000	502	55,859	333	35,717	182	6,099	174	11,494	1,191	13.1	109,169	1,204.2
1986	9,181,900	511	57,233	289	34,915	153	5,781	149	10,910	1,102	12.0	108,839	1,185.4
1987	9,270,700	545	64,588	318	39,596	187	5,939	179	10,966	1,229	13.3	121,089	1,306.2
1988	9,439,600	563	63,339	350	39,157	186	6,344	138	9,318	1,237	13.1	118,158	1,251.7
1989	9,598,600	627	66,334	369	39,950	161	6,187	129	8,181	1,286	13.4	120,652	1,257.0
1990	9,743,300	540	55,073	321	33,606	154	5,839	105	7,057	1,120	11.5	101,575	1,042.5
1991	10,084,900	542	48,021	298	30,230	157	5,352	105	6,916	1,102	10.9	90,519	897.6
1992	10,098,600	548	49,259	317	30,567	140	5,177	85	6,022	1,090	10.8	91,025	901.4
1993	10,813,200	595	49,628	296	30,584	146	5,181	98	5,756	1,135	10.5	91,149	842.9
1994	10,927,800	508	49,632	273	29,570	127	5,344	91	5,484	999	9.1	90,030	823.9

\* Excludes Motorcycle passengers, which are included with 'All Others'.

**Table 2.16 Sex of Driver Population by Age Groups 1994**

Sex of	Age Groups							Total
Driver	16-19	20-24	25-34	35-44	45-54	55-64	65+	
Male	192,833	331,625	868,172	840,740	637,952	437,235	452,475	3,761,032
Female	165,984	291,079	777,790	771,232	552,490	333,647	330,706	3,222,928
Total	358,817	622,704	1,645,962	1,611,972	1,190,442	770,882	783,181	6,983,960

Table 2.17 Driver Population by Age Groups 1985-1994

Year	Age Groups							Total
	16-19	20-24	25-34	35-44	45-54	55-64	65+	
1985	293,908	687,467	1,443,327	1,205,614	806,207	671,271	494,612	5,602,406
1986	295,107	676,283	1,494,658	1,257,724	820,397	685,640	524,069	5,753,878
1987	305,886	662,357	1,544,926	1,306,853	840,322	697,254	556,451	5,914,049
1988	310,764	643,691	1,588,516	1,353,841	866,022	708,865	583,196	6,054,895
1989	323,109	631,470	1,634,187	1,409,053	898,103	714,266	608,931	6,219,119
1990	322,542	629,478	1,666,474	1,467,699	931,991	720,788	639,826	6,378,798
1991	319,584	627,931	1,673,502	1,501,765	964,925	728,380	669,385	6,485,472
1992	314,685	623,707	1,665,433	1,528,726	1,018,365	736,652	696,432	6,584,000
1993	326,389	621,934	1,655,573	1,566,083	1,136,365	758,840	758,244	6,823,428
1994	358,817	622,704	1,645,962	1,611,972	1,190,442	770,882	783,181	6,983,960

Table 2.18 Driver Licence Class by Sex 1994

Licence Class	Driver Sex				Total	%
	Male	%	Female	%		
A	78,016	2.07	1,056	.03	79,072	1.13
AM	27,943	.74	164	.01	28,107	.40
AM1	149	.00	2	0.00	151	.00
AM2	164	.00	2	0.00	166	.00
AB	3,993	.11	324	.01	4,317	.06
ABM1	6	0.00	2	0.00	8	0.00
ABM2	9	0.00	1	0.00	10	0.00
AC	12,003	.32	234	.01	12,237	.18
ABM	2,152	.06	111	.00	2,263	.03
ACM	6,329	.17	68	.00	6,397	.09
ACM1	32	0.00	0	.00	32	0.00
ACM2	42	.00	1	0.00	43	0.00
B	16,847	.45	15,779	.49	32,626	.47
BM	4,735	.13	909	.03	5,644	.08
BM1	20	0.00	12	0.00	32	0.00
BM2	26	0.00	10	0.00	36	0.00
C	6,684	.18	446	.01	7,130	.10
CM	1,975	.05	61	.00	2,036	.03
CM1	12	0.00	1	0.00	13	0.00
CM2	9	0.00	1	0.00	10	0.00
D	204,931	5.45	11,154	.35	216,085	3.09
DM1	245	.01	6	0.00	251	.00
DM2	255	.01	14	0.00	269	.00
DM	49,488	1.32	764	.02	50,252	.72
DE	121	.00	20	0.00	141	.00
DF	2,147	.06	92	.00	2,239	.03

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Table 2.18

Driver Licence Class by Sex 1994

Continued

Licence Class	Driver Sex				Total	%
	Male	%	Female	%		
DEM	31	0.00	1	0.00	32	0.00
DEM1	0	.00	1	0.00	1	0.00
DFM	994	.03	18	0.00	1,012	.01
DFM1	7	0.00	0	.00	7	0.00
DFM2	8	0.00	0	.00	8	0.00
E	1,463	.04	2,349	.07	3,812	.05
EM	211	.01	62	.00	273	.00
EM1	1	0.00	0	.00	1	0.00
EM2	1	0.00	1	0.00	2	0.00
F	8,185	.22	5,235	.16	13,420	.19
FM	2,127	.06	324	.01	2,451	.04
FM1	19	0.00	6	0.00	25	0.00
FM2	24	0.00	6	0.00	30	0.00
G	2,898,063	77.05	3,045,262	94.49	5,943,325	85.10
GM	342,460	9.11	50,795	1.58	393,255	5.63
GM1	4,073	.11	721	.02	4,794	.07
GM2	4,006	.11	817	.03	4,823	.07
G1	33,355	.89	36,829	1.14	70,184	1.00
G1M	87	.00	11	0.00	98	.00
G1M1	197	.01	19	0.00	216	.00
G1M2	103	.00	10	0.00	113	.00
G2	43,945	1.17	48,683	1.51	92,628	1.33
G2M	318	.01	40	.00	358	.01
G2M1	105	.00	13	0.00	118	.00
G2M2	163	.00	13	0.00	176	.00
M	2,278	.06	396	.01	2,674	.04
M1	221	.01	32	0.00	253	.00
M2	254	.01	50	.00	304	.00
<b>Total</b>	<b>3,761,032</b>	<b>53.85</b>	<b>3,222,928</b>	<b>46.15</b>	<b>6,983,960</b>	<b>100.00</b>

Table 2.19 Licensed Drivers, Total Accidents, Persons Killed and Injured 1931-1994

Year	Licensed Drivers	Total Accidents	Persons Killed	Persons Injured
1931	666,266	9,241	571	8,494
1932	648,710	9,171	502	8,231
1933	638,710	8,634	403	7,877
1934	665,743	9,645	512	8,990
1935	707,457	10,648	560	9,839
1936	755,765	11,388	546	10,251
1937	802,765	13,906	766	12,092
1938	866,729	13,715	640	11,683
1939	899,572	13,710	652	11,638
1940	937,551	16,921	716	13,715
1941	986,773	18,167	801	14,275
1942	961,883	13,490	567	10,205
1943	919,457	11,025	549	8,628
1944	905,650	11,004	498	8,373
1945	971,852	13,458	598	9,804
1946	1,087,445	17,356	688	12,228
1947	1,144,291	22,293	734	13,056
1948	1,209,408	27,406	740	14,970
1949	1,278,584	34,472	830	17,469
1950	1,366,388	43,681	791	19,940
1951	1,461,538	54,920	949	22,557
1952	1,556,559	58,515	1,010	23,643
1953	1,656,259	65,866	1,082	24,353
1954	1,747,567	62,509	1,045	24,607
1955	1,856,845	63,219	1,111	26,246
1956	1,967,789	71,399	1,180	28,626
1957	2,088,551	76,302	1,279	30,414
1958	2,176,417	76,884	1,112	30,106
1959	2,270,246	81,518	1,187	31,602
1960	2,355,567	87,186	1,166	34,436
1961	2,414,615	85,577	1,268	37,146
1962	2,469,425	94,231	1,383	41,766
1963	2,555,015	104,919	1,421	47,801
1964	2,694,023	111,232	1,424	54,560
1965	2,739,138	128,462	1,611	60,917
1966	2,821,648	139,781	1,596	65,210
1967	3,004,654	145,008	1,719	67,280
1968	3,128,509	155,127	1,586	71,520
1969	3,247,979	169,395	1,683	74,902
1970	3,422,892	141,609	1,535	75,126
1971	3,563,197	158,831	1,769	84,650
1972	3,688,541	189,494	1,934	95,181

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Table 2.19 Licensed Drivers, Total Accidents, Persons Killed and Injured 1931-1994 Continued

Year	Licensed Drivers	Total Accidents	Persons Killed	Persons Injured
1973	3,841,628	193,021	1,959	97,790
1974	3,972,980	204,271	1,748	98,673
1975	4,160,623	213,689	1,800	97,034
1976	4,315,925	211,865	1,511	83,736
1977	4,562,903	218,567	1,420	95,664
1978	4,725,546	186,363	1,450	94,979
1979	4,858,351	197,196	1,560	101,321
1980	4,993,531	196,501	1,508	101,367
1981	5,123,177	198,372	1,445	100,321
1982	5,247,198	187,943	1,138	92,815
1983	5,380,259	181,999	1,204	91,706
1984	5,513,911	194,782	1,132	97,230
1985	5,660,422	189,750	1,191	109,169
1986	5,817,799	187,286	1,102	108,839
1987	5,978,105	203,431	1,229	121,089
1988	6,118,112	228,398	1,237	118,158
1989	6,290,424	247,038	1,286	120,652
1990	6,448,883	220,188	1,120	101,575
1991	6,574,231	213,669	1,102	90,519
1992	6,688,761	224,249	1,090	91,025
1993	6,823,428	228,834	1,135	91,149
1994	6,983,960	226,996	999	90,030

Table 2.20 Original Licences Issued  
1990-1994

Year	Original Licences
1990	267,894
1991	252,821
1992	227,434
1993	246,387
1994	300,314

Table 2.21 Temporary Licence Permits  
Issued for Class L's and  
Class R's 1990-1994

Year	Licence Permits	
	L	R
1990	301,569	24,828
1991	324,418	27,740
1992	299,064	22,251
1993	286,619	N/A*
1994	275,633	N/A*

\* Data not available due to a change in collection method

**Table 2.22 Driver Age Groups - Number Licensed, Accident Involvement and  
Per Cent Involved in Accidents 1994**

Drivers Age	Drivers Licensed			Drivers Involved			% of Drivers of Each Age		
	in Accidents*			Involved in Accidents			Male	Female	Total
	Male	Female	Total	Male	Female	Total	Male	Female	Total
Under 16	-	-	-	338	116	454	-	-	-
16	29,073	23,683	52,756	3,306	1,990	5,296	11.4	8.4	10.0
17	49,668	43,010	92,678	5,977	3,420	9,397	12.0	8.0	10.1
18	54,734	47,635	102,369	6,461	3,533	9,994	11.8	7.4	9.8
19	59,358	51,656	111,014	6,612	3,310	9,922	11.1	6.4	8.9
20	61,577	53,051	114,628	6,481	3,200	9,681	10.5	6.0	8.4
21-24	270,048	238,028	508,076	27,014	13,113	40,127	10.0	5.5	7.9
25-34	868,172	777,790	1,645,962	73,145	33,264	106,409	8.4	4.3	6.5
35-44	840,740	771,232	1,611,972	54,323	27,783	82,106	6.5	3.6	5.1
45-54	637,952	552,490	1,190,442	35,555	16,616	52,171	5.6	3.0	4.4
55-64	437,235	333,647	770,882	20,762	7,763	28,525	4.7	2.3	3.7
65-74	320,988	241,337	562,325	11,808	5,097	16,905	3.7	2.1	3.0
75 & over	131,487	89,369	220,856	5,035	2,229	7,264	3.8	2.5	3.3
Unknown	-	-	-	32,053	4	32,057	-	-	-
<b>Total</b>	<b>3,761,032</b>	<b>3,222,928</b>	<b>6,983,960</b>	<b>288,870</b>	<b>121,438</b>	<b>410,308</b>	<b>7.7</b>	<b>3.8</b>	<b>5.9</b>

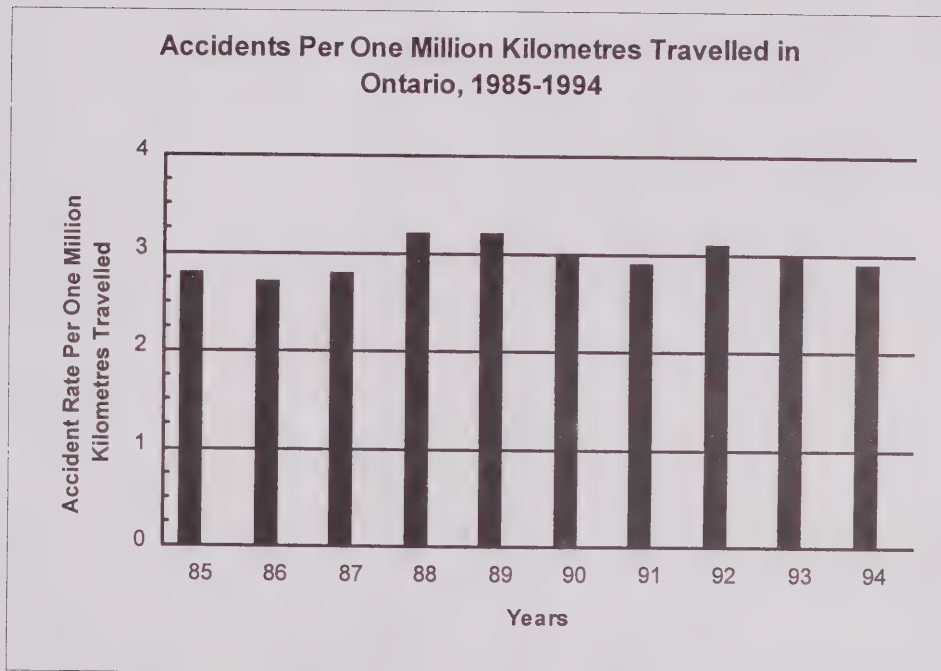
\* This table excludes drivers of non motor vehicles, i. e. bicyclists, snow vehicle operators, etc.





## 3

## The Accident



### 3a. Types of Accidents

**Table 3.1 Class of Accident 1985-1994**

Year	Class of Accident			Total
	Fatal	Personal Injury	Property Damage	
1985	1,036	73,840	114,874	<b>189,750</b>
1986	951	73,703	112,632	<b>187,286</b>
1987	1,085	80,432	121,914	<b>203,431</b>
1988	1,076	76,724	150,598	<b>228,398</b>
1989	1,106	77,852	168,080	<b>247,038</b>
1990	959	65,912	153,317	<b>220,188</b>
1991	956	59,242	153,471	<b>213,669</b>
1992	942	58,889	164,418	<b>224,249</b>
1993	987	58,932	168,915	<b>228,834</b>
1994	875	58,525	167,596	<b>226,996</b>

**Table 3.2 Accident Rate Per One Million  
Kilometers Travelled 1985-1994**

Year	Accident Rate
1985	2.8
1986	2.7
1987	2.8
1988	3.2
1989	3.2
1990	3.0
1991	2.9
1992	3.1
1993	3.0
1994	2.9

Table 3.3 Motor Vehicles Involved in Accidents Based on Initial Impact 1994\*

Motor Vehicle in	Class of Accident			Total
Accident Involving		Personal	Property	
Moveable Objects:	Fatal	Injury	Damage	
Other Motor Vehicle/s	880	83,184	244,196	328,260
Unattended Vehicles	8	856	13,966	14,830
Pedestrian	111	4,712	112	4,935
Cyclist	25	3,309	364	3,698
Railway Train	13	22	48	83
Street Car	-	46	243	289
Farm Tractor	3	44	103	150
Animal Domestic	-	87	545	632
Animal Wild	6	351	7,083	7,440
Other Moveable Objects	3	45	233	281
<b>Sub-total</b>	<b>1,049</b>	<b>92,656</b>	<b>266,893</b>	<b>360,598</b>
<b>Fixed Objects:</b>				
Cable Guide Rail	2	98	470	570
Concrete Guide Rail	-	208	581	789
Steel Guide Rail	1	255	1,183	1,439
Pole (Utility Tower)	8	539	1,523	2,070
Pole (Sign/Parking Meter)	2	137	823	962
Fence/Noise Barrier	1	29	238	268
Culvert	1	32	46	79
Bridge Support	3	54	158	215
Rock Face	1	27	49	77
Snow Bank or Drift	-	85	342	427
Ditch	3	437	767	1,207
Curb	21	668	1,871	2,560
Crash Cushion	1	11	19	31
Building or Wall	-	36	168	204
Water Course	-	2	9	11
Construction Marker	1	13	61	75
Tree, Shrub, or Stump	4	156	440	600
Other Fixed Object	3	267	1,296	1,566
<b>Sub-total</b>	<b>52</b>	<b>3,054</b>	<b>10,044</b>	<b>13,150</b>
<b>Other Events:</b>				
Ran Off Road	174	4,545	8,693	13,412
Skidding/Sliding	175	6,669	17,808	24,652
Jackknifing	-	46	110	156
Load Spill	1	15	92	108
Fire/Explosion	1	13	530	544
Submersion	-	1	3	4
Rollover	9	327	358	694
Debris on Road	2	105	706	813
Debris off Vehicle	3	100	758	861
Other Non-Collision Event	43	2,107	5,065	7,215
<b>Sub-total</b>	<b>408</b>	<b>13,928</b>	<b>34,123</b>	<b>48,459</b>
<b>Total</b>	<b>1,509</b>	<b>109,638</b>	<b>311,060</b>	<b>422,207</b>

\* Table 3.3 reflects the number of motor vehicles involved in accidents by initial impact.



**Table 3.4** Initial Impact Type  
by Class of Accident 1994

Initial Impact Type	Class of Accident			Total
		Personal	Property	
	Fatal	Injury	Damage	
Approaching	208	1,942	2,679	4,829
Angle	111	7,976	17,196	25,283
Rear End	46	14,933	36,025	51,004
Sideswipe	33	3,272	18,516	21,821
Turning Movement	61	11,673	35,520	47,254
Single Motor Vehicle Unattended	7	838	14,106	14,951
Single Motor Vehicle Other	406	17,758	41,252	59,416
Other	3	133	2,295	2,431
Unknown	-	-	7	7
<b>Total</b>	<b>875</b>	<b>58,525</b>	<b>167,596</b>	<b>226,996</b>

**3b. Time and Environment****Table 3.5 Month of Occurrence by Class of Accident 1994**

Month of	Class of Accident						Total	%
Occurrence			Personal		Property			
	Fatal	%	Injury	%	Damage	%		
January	66	7.5	5,511	9.4	22,945	13.7	28,522	12.6
February	60	6.9	4,497	7.7	16,131	9.6	20,688	9.1
March	64	7.3	4,259	7.3	12,967	7.7	17,290	7.6
April	64	7.3	4,053	6.9	11,025	6.6	15,142	6.7
May	69	7.9	4,861	8.3	12,100	7.2	17,030	7.5
June	74	8.5	5,043	8.6	12,458	7.4	17,575	7.7
July	83	9.5	5,173	8.8	11,682	7.0	16,938	7.5
August	97	11.1	5,010	8.6	11,668	7.0	16,775	7.4
September	70	8.0	4,916	8.4	11,705	7.0	16,691	7.4
October	88	10.1	4,970	8.5	12,824	7.7	17,882	7.9
November	66	7.5	5,164	8.8	15,601	9.3	20,831	9.2
December	74	8.5	5,068	8.7	16,490	9.8	21,632	9.5
Total	875	100.0	58,525	100.0	167,596	100.0	226,996	100.0

**Table 3.6 Day of Week by Class of Accident 1994**

Day of Occurrence	Class of Accident						Total	%
			Personal		Property			
	Fatal	%	Injury	%	Damage	%		
Monday	101	11.5	7,706	13.2	21,525	12.8	29,332	12.9
Tuesday	102	11.7	7,970	13.6	22,648	13.5	30,720	13.5
Wednesday	107	12.2	9,097	15.5	27,626	16.5	36,830	16.2
Thursday	114	13.0	8,735	14.9	26,083	15.6	34,932	15.4
Friday	163	18.6	9,833	16.8	28,334	16.9	38,330	16.9
Saturday	153	17.5	8,650	14.8	24,013	14.3	32,816	14.5
Sunday	135	15.4	6,534	11.2	17,367	10.4	24,036	10.6
Total	875	100.0	58,525	100.0	167,596	100.0	226,996	100.0

Table 3.7 Hour of Occurrence by Class of Accident 1994

Hour of	Class of Accident						Total	%
Occurrence A.M.			Personal		Property			
	Fatal	%	Injury	%	Damage	%		
12 to 1 a.m.	36	4.1	1,079	1.8	3,107	1.9	4,222	1.9
1 to 2 a.m.	59	6.7	1,384	2.4	3,542	2.1	4,985	2.2
2 to 3 a.m.	45	5.1	1,020	1.7	2,698	1.6	3,763	1.7
3 to 4 a.m.	19	2.2	555	0.9	1,615	1.0	2,189	1.0
4 to 5 a.m.	11	1.3	431	0.7	1,212	0.7	1,654	0.7
5 to 6 a.m.	17	1.9	442	0.8	1,475	0.9	1,934	0.9
Sub total	187	21.4	4,911	8.4	13,649	8.1	18,747	8.3
6 to 7 a.m.	22	2.5	1,109	1.9	3,514	2.1	4,645	2.0
7 to 8 a.m.	31	3.5	2,128	3.6	6,818	4.1	8,977	4.0
8 to 9 a.m.	28	3.2	3,462	5.9	10,750	6.4	14,240	6.3
9 to 10 a.m.	27	3.1	2,462	4.2	7,812	4.7	10,301	4.5
10 to 11 a.m.	38	4.3	2,587	4.4	7,803	4.7	10,428	4.6
11 to 12 noon	36	4.1	3,111	5.3	8,969	5.4	12,116	5.3
Sub total	182	20.8	14,859	25.4	45,666	27.2	60,707	26.7
Hour of								
Occurrence P.M.								
12 to 1 p.m.	27	3.1	3,555	6.1	9,696	5.8	13,278	5.8
1 to 2 p.m.	45	5.1	3,387	5.8	9,435	5.6	12,867	5.7
2 to 3 p.m.	46	5.3	3,645	6.2	9,863	5.9	13,554	6.0
3 to 4 p.m.	51	5.8	4,803	8.2	12,367	7.4	17,221	7.6
4 to 5 p.m.	34	3.9	4,859	8.3	13,097	7.8	17,990	7.9
5 to 6 p.m.	53	6.1	4,539	7.8	12,573	7.5	17,165	7.6
Sub total	256	29.3	24,788	42.4	67,031	40.0	92,075	40.6
6 to 7 p.m.	43	4.9	3,563	6.1	9,980	6.0	13,586	6.0
7 to 8 p.m.	41	4.7	2,756	4.7	7,598	4.5	10,395	4.6
8 to 9 p.m.	44	5.0	2,137	3.7	6,131	3.7	8,312	3.7
9 to 10 p.m.	33	3.8	2,099	3.6	5,950	3.6	8,082	3.6
10 to 11 p.m.	41	4.7	1,734	3.0	5,120	3.1	6,895	3.0
11 to 12 midnight	37	4.2	1,460	2.5	4,563	2.7	6,060	2.7
Sub total	239	27.3	13,749	23.5	39,342	23.5	53,330	23.5
Unknown	11	1.3	218	0.4	1,908	1.1	2,137	0.9
Total	875	100.0	58,525	100.0	167,596	100.0	226,996	100.0

**Table 3.8** Statutory Holidays, Holiday Weekends - Fatal Accidents, Persons Killed and Injured 1994

Statutory Holiday	Number of Fatal Accidents	Drivers		Passengers		Others		Total	
		Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured
Easter Weekend	7	4	-	-	1	3	-	7	1
Victoria Day	8	8	4	-	8	-	-	8	12
Canada Day	11	7	9	5	24	-	-	12	33
Civic Holiday (Simcoe Day)	10	6	7	11	21	1	-	18	28
Labour Day	12	10	6	6	10	1	-	17	16
Thanksgiving Day	12	8	9	6	11	1	-	15	20
Christmas/Boxing Day	3	-	2	2	5	1	-	3	7

**Table 3.9** Light Condition by Class of Accident 1994

Light Condition	Class of Accident						Total	%
			Personal		Property			
	Fatal	%	Injury	%	Damage	%		
Daylight	456	52.1	40,840	69.8	112,294	67.0	153,590	67.7
Dawn	15	1.7	758	1.3	2,667	1.6	3,440	1.5
Dusk	18	2.1	1,902	3.2	5,840	3.5	7,760	3.4
Darkness	386	44.1	14,998	25.6	46,548	27.8	61,932	27.3
Other	-	-	27	-	247	0.1	274	0.1
<b>Total</b>	<b>875</b>	<b>100.0</b>	<b>58,525</b>	<b>100.0</b>	<b>167,596</b>	<b>100.0</b>	<b>226,996</b>	<b>100.0</b>

**Table 3.10** Visibility by Class of Accident 1994

Visibility	Class of Accident						Total	%
			Personal		Property			
	Fatal	%	Injury	%	Damage	%		
Clear	711	81.3	46,451	79.4	126,417	75.4	173,579	76.5
Rain	68	7.8	6,288	10.7	17,428	10.4	23,784	10.5
Snow	52	5.9	3,890	6.6	17,240	10.3	21,182	9.3
Freezing Rain	5	0.6	565	1.0	2,285	1.4	2,855	1.3
Drifting Snow	14	1.6	498	0.9	1,956	1.2	2,468	1.1
Strong Wind	2	0.2	160	0.3	486	0.3	648	0.3
Fog, Mist, Smoke, or Dust	19	2.2	576	1.0	1,362	0.8	1,957	0.9
Other	4	0.5	97	0.2	422	0.3	523	0.2
<b>Total</b>	<b>875</b>	<b>100.0</b>	<b>58,525</b>	<b>100.0</b>	<b>167,596</b>	<b>100.0</b>	<b>226,996</b>	<b>100.0</b>



### 3c. The Accident Location

Table 3.11 Road Jurisdiction by Class of Accident 1994

Road Jurisdiction	Class of Accident			Total
		Personal	Property	
	Fatal	Injury	Damage	
Municipal (Excl. Twp. Rd.)	187	30,111	87,180	117,478
Provincial Highway	372	12,494	36,029	48,895
Township	73	2,653	7,771	10,497
County or District	95	2,474	6,270	8,839
Regional Municipality	144	10,523	29,498	40,165
Federal	4	174	647	825
Other	-	96	201	297
<b>Total</b>	<b>875</b>	<b>58,525</b>	<b>167,596</b>	<b>226,996</b>

Table 3.12 Road Jurisdiction for All Accidents 1985-1994

Road Jurisdiction	Year										Total
	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	
Municipal	128,809	120,799	135,949	159,228	139,926	117,218	112,651	117,800	119,421	117,478	1,269,279
Provincial	38,976	38,002	40,825	44,772	48,944	43,513	44,234	46,537	48,275	48,895	442,973
Township	10,562	10,092	10,460	12,277	11,882	10,684	10,332	10,777	10,667	10,497	108,230
County or District	7,002	7,027	7,024	7,527	8,773	8,582	8,482	9,186	9,076	8,839	81,518
Regional Municipality*	3,166	10,185	7,863	3,620	36,237	39,004	36,956	38,810	40,230	40,165	256,236
Federal**	-	-	-	748	940	913	769	899	863	825	5,957
Other	1,235	1,181	1,310	226	336	274	245	240	302	297	5,646
<b>Total</b>	<b>189,750</b>	<b>187,286</b>	<b>203,431</b>	<b>228,398</b>	<b>247,038</b>	<b>220,188</b>	<b>213,669</b>	<b>224,249</b>	<b>228,834</b>	<b>226,996</b>	<b>2,169,839</b>

\* Some accidents occurring on regional municipal roads were recorded as occurring on municipal roads prior to 1989.

Table 3.13 Road Location by Class of Accident 1994

Road Location	Class of Accident						Total	%
			Personal		Property			
	Fatal	%	Injury	%	Damage	%		
Non-intersection	551	63.0	21,764	37.2	69,512	41.5	91,827	40.5
Intersection Related	91	10.4	11,260	19.2	32,420	19.3	43,771	19.3
In Intersection	136	15.5	17,866	30.5	36,506	21.8	54,508	24.0
At/Near Private Drive	60	6.9	6,785	11.6	26,327	15.7	33,172	14.6
At Railway	13	1.5	122	0.2	348	0.2	483	0.2
Underpass or Tunnel	2	0.2	122	0.2	525	0.3	649	0.3
Overpass or Bridge	18	2.1	476	0.8	1,510	0.9	2,004	0.9
Other	4	0.5	130	0.2	448	0.3	582	0.3
Total	875	100.0	58,525	100.0	167,596	100.0	226,996	100.0

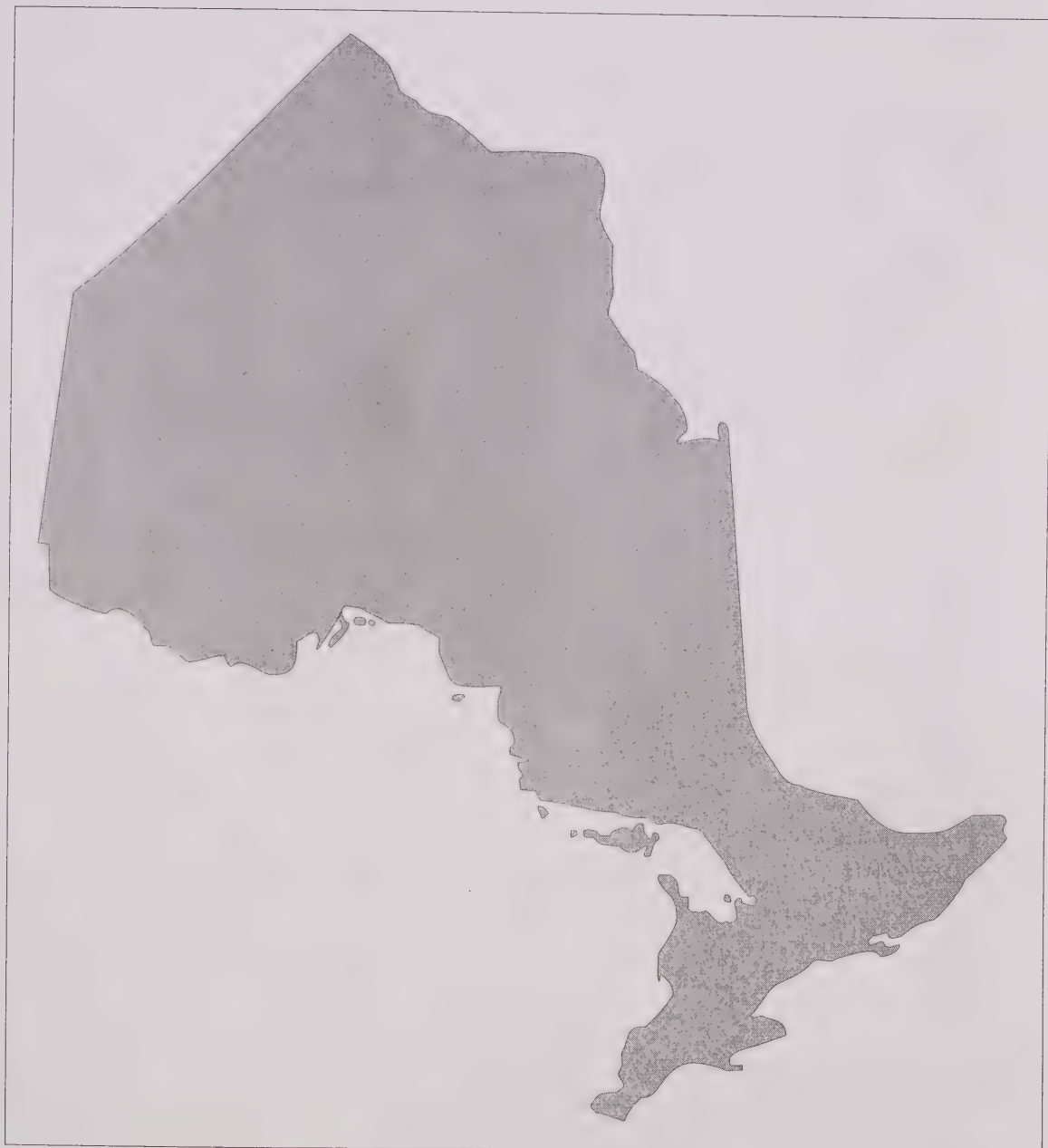
Table 3.14 Road Surface Condition by Class of Accident 1994

Road Surface	Class of Accident						Total	%
Condition			Personal		Property			
	Fatal	%	Injury	%	Damage	%		
Dry	584	66.7	37,419	63.9	96,011	57.3	134,014	59.0
Wet	154	17.6	11,983	20.5	33,619	20.1	45,756	20.2
Loose Snow	29	3.3	2,016	3.4	9,463	5.6	11,508	5.1
Slush	22	2.5	1,603	2.7	5,886	3.5	7,511	3.3
Packed Snow	24	2.7	1,652	2.8	8,077	4.8	9,753	4.3
Ice	44	5.0	3,265	5.6	13,034	7.8	16,343	7.2
Mud	1	0.1	22	-	75	-	98	-
Loose Sand or Gravel	10	1.1	387	0.7	859	0.5	1,256	0.6
Spilled Liquid	-	-	22	-	57	-	79	-
Other	7	0.8	156	0.3	515	0.3	678	0.3
Total	875	100.0	58,525	100.0	167,596	100.0	226,996	100.0



## 4

## Place of Accident in Ontario



#### 4. Place of Accident in Ontario

**Table 4.1** Place of Accident - Estimated Population, Class of Accident, Persons, Killed, Persons Injured and Vehicle Registrations 1994

Location	Estimated Population	Class of Accident				Persons		Motor Vehicle Registrations
		Total	Personal	Property		Killed	Injured	
	(1991)*	Accidents	Fatal	Injury	Damage	999	90,030	
<b>ONTARIO</b>	<b>9,624,670</b>	<b>226,996</b>	<b>875</b>	<b>58,525</b>	<b>167,596</b>	<b>999</b>	<b>90,030</b>	<b>6,406,581</b>
BLIND RIVER, T	3,913	38	1	12	25	1	24	
ELLIOT LAKE, C	M 13,391	101	-	23	78	-	26	
MICHIPICOTEN, TP	M 4,139	1	-	-	1	-	-	
SAULT STE MARIE, C	M 79,366	1,750	4	429	1,317	4	627	
PROVINCIAL HIGHWAY	-	728	11	189	528	12	324	
OTHER AREAS	15,737	246	1	65	180	1	81	
<b>ALGOMA</b>	<b>116,546</b>	<b>2,864</b>	<b>17</b>	<b>718</b>	<b>2,129</b>	<b>18</b>	<b>1,082</b>	<b>88,468</b>
BRANTFORD, C	M 77,713	1,823	2	375	1,446	2	541	
BRANTFORD, TP	6,327	7	-	1	6	-	1	
PARIS, T	M 8,242	110	-	22	88	-	32	
PROVINCIAL HIGHWAY	-	460	3	159	298	6	261	
OTHER AREAS	13,057	343	7	75	261	7	126	
<b>BRANT</b>	<b>105,339</b>	<b>2,743</b>	<b>12</b>	<b>632</b>	<b>2,099</b>	<b>15</b>	<b>961</b>	<b>73,603</b>
AMABEL, TP	3,548	4	-	1	3	-	2	
BRANT, TP	3,255	3	-	1	2	-	1	
CARRICK, TP	2,308	1	-	1	-	-	1	
CHESLEY, T	1,855	19	-	-	19	-	-	
CULROSS, TP	1,578	1	-	-	1	-	-	
KINCARDINE, T	M 2,944	80	-	16	64	-	27	
PORT ELGIN, T	M 6,490	85	-	17	68	-	20	
SAUGEEN, TP	1,737	1	-	1	-	-	4	
SOUTHAMPTON, T	M 2,940	25	-	8	17	-	15	
WALKERTON, T	M 4,788	61	-	8	53	-	9	

<b>Legend</b>	<b>T</b>	town	<b>Other Areas -</b>	Jurisdictions with less than 1,500 population	<b>M</b> Municipal Police Force
	<b>C</b>	city			
	<b>VL</b>	village			
	<b>TP</b>	township			

\* Source: Ontario Ministry of Municipal Affairs Municipal Directory 1991

Population data in this table refers to persons residing in a municipality on a permanent basis.

The method used in determining the population is different from previous methods used.



Table 4.1 Continued

Location	Estimated Population	Class of Accident				Persons		Motor Vehicle Registrations
		Total		Personal	Property			
		(1991)* Accidents	Fatal	Injury	Damage	Killed	Injured	
WIARTON, T	2,237	28	-	8	20	-	9	
PROVINCIAL HIGHWAY	-	247	-	78	169	-	150	
OTHER AREAS	27,403	579	2	159	418	2	278	
<b>BRUCE</b>	<b>61,083</b>	<b>1,134</b>	<b>2</b>	<b>298</b>	<b>834</b>	<b>2</b>	<b>516</b>	<b>49,583</b>
COCHRANE, T	4,403	58	-	11	47	-	12	
HEARST, T	5,962	59	-	11	48	-	15	
IROQUOIS FALLS, T	5,823	60	-	9	51	-	14	
KAPUSKASING, T	M 10,328	113	-	27	86	-	36	
SMOOTH ROCK FALLS, T	2,004	15	-	5	10	-	6	
TIMMINS, C	M 46,697	678	2	167	509	2	251	
PROVINCIAL HIGHWAY	-	569	8	181	380	8	327	
OTHER AREAS	10,213	189	1	54	134	1	81	
<b>COCHRANE</b>	<b>85,430</b>	<b>1,741</b>	<b>11</b>	<b>465</b>	<b>1,265</b>	<b>11</b>	<b>742</b>	<b>61,268</b>
AMARANTH, TP	3,146	7	-	-	7	-	-	
EAST GARAFRAXA, TP	2,037	3	-	1	2	-	1	
MELANCTHON, TP	2,320	3	-	1	2	-	1	
MONO, TP	5,766	5	-	2	3	-	4	
MULMUR, TP	2,483	2	-	1	1	-	2	
ORANGEVILLE, T	M 17,227	298	-	49	249	-	74	
SHELBURNE, T	M 3,352	38	-	5	33	-	9	
PROVINCIAL HIGHWAY	-	312	4	83	225	5	174	
OTHER AREAS	2,445	408	4	84	320	5	133	
<b>DUFFERIN</b>	<b>38,776</b>	<b>1,076</b>	<b>8</b>	<b>226</b>	<b>842</b>	<b>10</b>	<b>398</b>	<b>29,706</b>
MORRISBURG, VL	2,301	10	-	-	10	-	-	
MOUNTAIN, TP	3,223	1	-	-	1	-	-	
WILLIAMSBURGH, TP	3,211	2	-	1	1	-	2	
WINCHESTER, TP	3,279	21	-	3	18	-	3	
WINCHESTER, VL	2,261	3	-	-	3	-	-	
PROVINCIAL HIGHWAY	-	180	5	55	120	6	141	(Veh. Reg.
OTHER AREAS	5,832	195	3	54	138	4	77	included in
<b>DUNDAS</b>	<b>20,107</b>	<b>412</b>	<b>8</b>	<b>113</b>	<b>291</b>	<b>10</b>	<b>223</b>	<b>Stormont)</b>
AJAX, T	54,542	579	4	141	434	5	221	
BROCK, TP	10,530	91	-	24	67	-	44	
NEWCASTLE, T	47,262	120	1	20	99	1	29	
OSHAWA, C	123,681	2,287	5	594	1,688	5	891	
PICKERING, T	64,946	707	2	182	523	2	265	
SCUGOG, TP	17,053	192	2	63	127	4	96	
UXBRIDGE, TP	13,241	171	-	37	134	-	69	
WHITBY, T	59,152	1,019	1	276	742	1	431	
PROVINCIAL HIGHWAY	-	1,871	9	466	1,396	10	762	
OTHER AREAS	-	913	3	237	673	3	347	
<b>DURHAM</b>	<b>390,407</b>	<b>7,950</b>	<b>27</b>	<b>2,040</b>	<b>5,883</b>	<b>31</b>	<b>3,155</b>	<b>272,017</b>

Table 4.1

Continued

Location		Estimated Population	Class of Accident				Persons		Motor Vehicle
			Total		Personal	Property			Registrations
		(1991)*	Accidents	Fatal	Injury	Damage	Killed	Injured	
ALDBOROUGH, TP		3,627	1	-	1	-	-	2	
AYLMER, T	M	5,965	93	-	12	81	-	17	
DUNWICH, TP		2,191	2	-	2	-	-	4	
MALAHIDE, TP		5,587	3	-	-	3	-	-	
PORT STANLEY, VL		2,033	12	-	3	9	-	4	
ST THOMAS, C	M	29,558	461	1	127	333	1	201	
YARMOUTH, TP		7,605	3	-	1	2	-	1	
PROVINCIAL HIGHWAY		-	456	7	140	309	8	255	
OTHER AREAS		16,170	477	3	142	332	4	237	
<b>ELGIN</b>		<b>72,736</b>	<b>1,508</b>	<b>11</b>	<b>428</b>	<b>1,069</b>	<b>13</b>	<b>721</b>	<b>57,507</b>
AMHERSTBURG, T	M	8,808	98	-	22	76	-	32	
ANDERDON, TP	M	5,469	10	-	2	8	-	2	
BELLE RIVER, T		4,172	38	-	17	21	-	22	
COLCHESTER SOUTH, TP	M	5,262	1	-	-	1	-	-	
ESSEX, T	M	6,601	85	-	17	68	-	18	
GOSFIELD NORTH, TP		4,200	2	-	-	2	-	-	
GOSFIELD SOUTH, TP		7,536	2	-	1	1	-	3	
HARROW, T		2,510	26	-	3	23	-	4	
KINGSVILLE, T	M	5,779	51	-	17	34	-	22	
LEAMINGTON, T	M	13,984	344	-	52	292	-	71	
MAIDSTONE, TP		9,755	7	-	-	7	-	-	
MALDEN, TP		3,099	1	-	1	-	-	1	
MERSEA, TP	M	8,355	1	-	-	1	-	-	
ST CLAIR BEACH, VL	M	3,542	20	-	4	16	-	4	
SANDWICH SOUTH, TP		5,554	7	-	2	5	-	2	
TECUMSEH, T		10,432	95	-	27	68	-	37	
TILBURY NORTH, TP		3,266	3	-	1	2	-	1	
TILBURY WEST, TP		1,677	1	-	1	-	-	1	
WINDSOR, C	M	190,954	4,409	14	1,291	3,104	15	1,841	
PROVINCIAL HIGHWAY		-	676	6	216	454	7	372	
OTHER AREAS		25,033	1,122	13	372	737	13	562	
<b>ESSEX</b>		<b>325,988</b>	<b>6,999</b>	<b>33</b>	<b>2,046</b>	<b>4,920</b>	<b>35</b>	<b>2,995</b>	<b>216,391</b>
KINGSTON, C	M	60,930	1,297	2	344	951	2	455	
KINGSTON, TP		37,412	31	-	9	22	-	12	
LOUGHBOROUGH, TP		4,133	1	-	1	-	-	1	
PITTSBURGH, TP		11,416	1	-	-	1	-	-	
PROVINCIAL HIGHWAY		-	714	11	190	513	11	345	
OTHER AREAS		15,576	852	5	202	645	5	329	
<b>FRONTENAC</b>		<b>129,467</b>	<b>2,896</b>	<b>18</b>	<b>746</b>	<b>2,132</b>	<b>18</b>	<b>1,142</b>	<b>83,876</b>
ALEXANDRIA, T	M	3,194	64	-	21	43	-	30	
CHARLOTTENBURGH, TP		7,499	1	-	-	1	-	-	
KENYON, TP		3,286	2	-	1	1	-	1	

Table 4.1 Continued

Location		Estimated	Class of Accident				Persons		Motor Vehicle
		Population	Total		Personal	Property			Registrations
		(1991)*	Accidents	Fatal	Injury	Damage	Killed	Injured	
LANCASTER, TP		3,447	7	-	-	7	-	-	
LOCHIEL, TP		2,878	3	-	1	2	-	1	
PROVINCIAL HIGHWAY		-	269	5	87	177	10	139	(Veh. Reg.
OTHER AREAS		1,605	200	-	65	135	-	104	included in
<b>GLENGARRY</b>		<b>21,909</b>	<b>546</b>	<b>5</b>	<b>175</b>	<b>366</b>	<b>10</b>	<b>275</b>	<b>Stormont)</b>
AUGUSTA, TP		7,115	3	-	-	3	-	-	
CARDINAL, VL	M	1,483	6	-	3	3	-	5	
EDWARDSBURG, TP		4,390	2	-	1	1	-	2	
KEMPTVILLE, T	M	2,437	13	-	2	11	-	3	
OXFORD ON RIDEAU, TP		5,352	4	-	-	4	-	-	
PRESCOTT, T	M	4,189	59	-	15	44	-	21	
PROVINCIAL HIGHWAY		-	326	7	83	236	8	172	(Veh. Reg.
OTHER AREAS		4,166	378	2	95	281	2	134	included in
<b>GRENVILLE</b>		<b>29,132</b>	<b>791</b>	<b>9</b>	<b>199</b>	<b>583</b>	<b>10</b>	<b>337</b>	<b>Leeds)</b>
BENTINCK, TP		3,383	1	-	-	1	-	-	
COLLINGWOOD, TP		2,915	3	-	2	1	-	2	
DURHAM, T	M	2,511	26	-	5	21	-	6	
EGREMONT, TP		2,264	1	-	-	1	-	-	
HANOVER, T	M	6,187	97	-	21	76	-	28	
HOLLAND, TP		2,663	1	-	-	1	-	-	
MEAFORD, T	M	4,182	37	-	7	30	-	8	
NORMANBY, TP		2,592	2	-	-	2	-	-	
OWEN SOUND, C	M	20,809	365	-	107	258	-	165	
PROTON, TP		1,689	3	-	1	2	-	1	
ST VINCENT, TP		2,217	2	-	-	2	-	-	
SARAWAK, TP		2,743	1	-	-	1	-	-	
SYDENHAM, TP		2,890	1	-	-	1	-	-	
THORNBURY, T	M	1,566	18	-	5	13	-	6	
PROVINCIAL HIGHWAY		-	377	7	113	257	12	209	
OTHER AREAS		21,400	722	5	185	532	5	287	
<b>GREY</b>		<b>80,011</b>	<b>1,657</b>	<b>12</b>	<b>446</b>	<b>1,199</b>	<b>17</b>	<b>712</b>	<b>55,689</b>
DELHI, TP		1,930	150	3	41	106	3	69	
DUNNVILLE, T		11,766	161	1	35	125	1	55	
HALDIMAND, T		19,880	117	-	23	94	-	40	
NANTICOKE, C		21,759	251	5	65	181	6	112	
NORFOLK, TP		10,883	79	2	28	49	2	48	
SIMCOE, T		14,715	311	-	63	248	-	98	
PROVINCIAL HIGHWAY		-	409	4	144	261	5	255	
OTHER AREAS		13,000	423	2	120	301	2	182	
<b>HALDIMAND-NORFOLK</b>		<b>93,933</b>	<b>1,901</b>	<b>17</b>	<b>519</b>	<b>1,365</b>	<b>19</b>	<b>859</b>	<b>75,730</b>
ANSON, HINDON & MINDEN, TP		2,902	8	-	-	8	-	-	
DYSART ET AL, TP		4,346	7	-	1	6	-	1	

Table 4.1

Continued

Location	Estimated Population (1991)*	Class of Accident				Persons		Motor Vehicle Registrations
		Total Accidents	Fatal	Personal Injury	Property Damage	Killed	Injured	
PROVINCIAL HIGHWAY	-	242	3	80	159	3	153	
OTHER AREAS	5,781	174	-	37	137	-	48	
<b>HALIBURTON</b>	<b>13,029</b>	<b>431</b>	<b>3</b>	<b>118</b>	<b>310</b>	<b>3</b>	<b>202</b>	<b>11,732</b>
BURLINGTON, C	125,260	1,433	6	348	1,079	9	493	
HALTON HILLS, T	35,496	506	1	128	377	1	182	
MILTON, T	30,138	555	3	144	408	4	222	
OAKVILLE, T	109,718	1,225	3	278	944	3	401	
PROVINCIAL HIGHWAY	-	2,359	9	584	1,766	10	985	
OTHER AREAS	-	106	-	18	88	-	29	
<b>HALTON</b>	<b>300,612</b>	<b>6,184</b>	<b>22</b>	<b>1,500</b>	<b>4,662</b>	<b>27</b>	<b>2,312</b>	<b>216,788</b>
BANCROFT, VL	2,335	63	-	13	50	-	22	
BELLEVILLE, C	M 35,169	907	1	235	671	1	320	
DESERONTO, T	M 1,810	19	-	3	16	-	5	
FRANKFORD, VL	2,051	12	-	1	11	-	1	
HUNGERFORD, TP	2,880	2	-	-	2	-	-	
HUNTINGDON, TP	2,146	1	-	-	1	-	-	
MARMORA LAKE, TP	1,801	3	-	2	1	-	3	
RAWDON, TP	2,594	2	-	-	2	-	-	
SIDNEY, TP	16,338	14	-	8	6	-	9	
STIRLING, VL	M 2,050	17	-	5	12	-	9	
THURLOW, TP	7,267	5	-	1	4	-	1	
TRENTON, C	M 16,065	302	-	74	228	-	105	
TWEED, VL	1,510	14	1	4	9	2	7	
TYENDINAGA, TP	2,990	1	-	1	-	-	1	
PROVINCIAL HIGHWAY	-	739	8	226	505	12	394	
OTHER AREAS	13,393	595	5	144	446	5	232	
<b>HASTINGS</b>	<b>110,399</b>	<b>2,696</b>	<b>15</b>	<b>717</b>	<b>1,964</b>	<b>20</b>	<b>1,109</b>	<b>88,973</b>
CLINTON, T	M 3,183	45	-	7	38	-	11	
EXETER, T	M 4,264	82	-	24	58	-	34	
GODERICH, T	M 7,399	117	-	17	100	-	20	
GODERICH, TP	2,494	4	-	1	3	-	1	
HOWICK, TP	3,429	2	-	1	1	-	1	
MORRIS, TP	1,712	1	-	-	1	-	-	
SEAFORTH, T	M 2,285	33	-	6	27	-	6	
STANLEY, TP	1,622	3	-	-	3	-	-	
STEPHEN, TP	4,326	2	-	-	2	-	-	
TUCKERSMITH, TP	3,078	2	-	1	1	-	3	
WINGHAM, T	M 3,003	40	-	4	36	-	4	
PROVINCIAL HIGHWAY	-	334	5	80	249	9	170	
OTHER AREAS	21,747	451	3	127	321	4	211	
<b>HURON</b>	<b>58,542</b>	<b>1,116</b>	<b>8</b>	<b>268</b>	<b>840</b>	<b>13</b>	<b>461</b>	<b>40,148</b>

Table 4.1 Continued

Location		Estimated Population (1991)*	Class of Accident				Persons		Motor Vehicle Registrations
			Total		Personal	Property			
			Accidents	Fatal	Injury	Damage	Killed	Injured	
DRYDEN, T	M	6,257	103	-	11	92	-	21	
IGNACE, TP		1,770	4	-	1	3	-	1	
JAFFRAY MELICK, T		3,862	22	-	8	14	-	17	
KEEWATIN, T		2,052	24	-	3	21	-	5	
KENORA, T	M	9,570	290	-	48	242	-	66	
RED LAKE, TP		2,084	1	-	-	1	-	-	
SIOUX LOOKOUT, T		3,082	65	1	9	55	1	10	
PROVINCIAL HIGHWAY		-	776	12	184	580	17	337	
OTHER AREAS		6,903	297	1	78	218	1	119	
<b>KENORA</b>		<b>35,580</b>	<b>1,582</b>	<b>14</b>	<b>342</b>	<b>1,226</b>	<b>19</b>	<b>576</b>	<b>37,653</b>
BLENHEIM, T		4,570	57	-	11	46	-	13	
CAMDEN, TP		2,192	3	-	3	-	-	5	
CHATHAM, C	M	42,800	855	-	205	650	-	285	
CHATHAM, TP		6,340	2	-	-	2	-	-	
DOVER, TP		4,005	1	-	1	-	-	1	
DRESDEN, T	M	2,626	29	-	6	23	-	6	
HARWICH, TP		5,993	7	-	2	5	-	3	
RALEIGH, TP		5,451	3	-	2	1	-	2	
RIDGETOWN, T		3,204	32	-	6	26	-	7	
ROMNEY, TP		1,937	1	-	-	1	-	-	
TILBURY, T	M	4,294	51	-	5	46	-	5	
TILBURY EAST, TP		2,298	1	-	-	1	-	-	
WALLACEBURG, T	M	11,684	134	-	30	104	-	36	
WHEATLEY, VL		1,533	13	-	4	9	-	7	
PROVINCIAL HIGHWAY		-	414	8	159	247	10	267	
OTHER AREAS		7,688	496	10	179	307	11	280	
<b>KENT</b>		<b>106,615</b>	<b>2,099</b>	<b>18</b>	<b>613</b>	<b>1,468</b>	<b>21</b>	<b>917</b>	<b>79,546</b>
BOSANQUET, TP		4,901	3	-	-	3	-	-	
ENNISKILLEN, TP		3,117	3	-	1	2	-	1	
FOREST, T		2,769	25	-	5	20	-	6	
PETROLIA, T	M	4,510	57	1	6	50	1	7	
PLYMPTON, TP		5,116	1	-	-	1	-	-	
POINT EDWARD, VL	M	2,323	13	-	8	5	-	9	
SARNIA, C	M	72,684	1,427	1	332	1,094	1	457	
SOMBRA, TP		4,053	1	-	1	-	-	2	
WYOMING, VL		1,988	18	-	4	14	-	6	
PROVINCIAL HIGHWAY		-	372	1	104	267	1	165	
OTHER AREAS		22,542	508	9	151	348	10	251	
<b>LAMBTON</b>		<b>124,003</b>	<b>2,428</b>	<b>12</b>	<b>612</b>	<b>1,804</b>	<b>13</b>	<b>904</b>	<b>88,474</b>
ALMONTE, T		4,249	40	-	12	28	-	20	
BATHURST, TP		2,820	1	-	1	-	-	2	



Table 4.1 Continued

Location		Estimated	Class of Accident				Persons		Motor Vehicle
		Population	Total		Personal	Property			Registrations
		(1991)*	Accidents	Fatal	Injury	Damage	Killed	Injured	
BECKWITH, TP		4,211	1	-	-	1	-	-	
CARLETON PLACE, T	M	7,080	104	1	16	87	1	29	
MONTAGUE, TP		3,520	1	-	-	1	-	-	
PAKENHAM, TP		1,767	3	-	-	3	-	-	
PERTH, T	M	5,438	148	-	32	116	-	47	
RAMSAY, TP		3,719	4	-	2	2	-	3	
SMITHS FALLS, T	M	9,235	254	1	49	204	1	62	
PROVINCIAL HIGHWAY		-	361	5	80	276	5	137	
OTHER AREAS		10,950	457	1	95	361	1	159	
LANARK		52,989	1,374	8	287	1,079	8	459	39,818
BROCKVILLE, C	M	21,207	488	1	89	398	1	142	
CROSBY SOUTH, TP		1,649	2	-	-	2	-	-	
ELIZABETHTOWN, TP		7,021	4	-	2	2	-	3	
ELMSLEY SOUTH, TP		3,080	1	-	1	-	-	1	
F LEEDS & LANSLOWNE, TP		4,638	5	-	-	5	-	-	
FRONT OF YONGE, TP		2,239	5	1	1	3	1	1	
GANANOQUE, T	M	4,988	87	-	21	66	-	26	
R LEEDS & LANSLOWNE, TP		2,569	2	-	-	2	-	-	(Veh. Reg.
PROVINCIAL HIGHWAY		-	473	4	160	309	6	278	includes
OTHER AREAS		10,232	432	2	106	324	2	149	Grenville)
LEEDS		57,623	1,499	8	380	1,111	10	600	66,265
ERNESTOWN, TP		11,100	2	-	1	1	-	1	
NAPANEE, T		4,849	164	-	35	129	-	50	
PROVINCIAL HIGHWAY		-	424	6	145	273	6	254	
OTHER AREAS		18,481	308	3	75	230	4	108	
LENNOX & ADDINGTON		34,430	898	9	256	633	10	413	23,570
PROVINCIAL HIGHWAY		-	152	-	43	109	-	67	
OTHER AREAS		7,069	154	-	45	109	-	66	
MANITOULIN		7,069	306	-	88	218	-	133	9,024
BIDDULPH, TP		2,138	1	-	1	-	-	1	
CARADOC, TP		6,043	5	-	3	2	-	8	
EKFRID, TP		2,141	1	-	-	1	-	-	
GLENCOE, VL		2,062	34	1	12	21	1	16	
LOBO, TP		5,426	2	-	-	2	-	-	
LONDON, C	M	310,698	6,587	11	2,183	4,393	11	3,257	
LONDON, TP		5,322	2	-	1	1	-	2	
LUCAN, VL		1,810	12	-	1	11	-	1	
NORTH DORCHESTER, TP		7,817	11	-	2	9	-	3	
WEST MISSOURI, TP		2,415	1	-	-	1	-	-	
STRATHROY, T	M	10,370	109	-	26	83	-	36	
PROVINCIAL HIGHWAY		-	778	4	257	517	4	433	
OTHER AREAS		13,959	801	9	246	546	13	371	
MIDDLESEX		370,201	8,344	25	2,732	5,587	29	4,128	241,825

Table 4.1

Continued

Location		Estimated	Class of Accident				Persons		Motor Vehicle
		Population	Total		Personal	Property			Registrations
		(1991)*	Accidents	Fatal	Injury	Damage	Killed	Injured	
BRACEBRIDGE, T		10,912	183	-	43	140	-	63	
GRAVENHURST, T		8,953	92	-	14	78	-	23	
HUNTSVILLE, T		13,404	155	1	33	121	1	50	
LAKE OF BAYS MUSKOKA, TP		2,526	7	-	-	7	-	-	
MUSKOKA LAKES, TP		5,236	24	-	7	17	-	12	
PROVINCIAL HIGHWAY		-	579	7	138	434	7	222	
OTHER AREAS		2,018	336	3	82	251	3	117	
MUSKOKA		43,049	1,376	11	317	1,048	11	487	36,856
FORT ERIE, T		25,495	435	2	97	336	3	152	
GRIMSBY, T		18,057	195	1	58	136	1	90	
LINCOLN, T		16,523	248	2	79	167	2	134	
NIAGARA ON THE LAKE, T		12,410	176	3	39	134	4	68	
NIAGARA FALLS, C		74,633	1,690	2	404	1,284	2	670	
PELHAM, T		13,319	168	1	35	132	1	68	
PORT COLBORNE, C		18,627	243	2	48	193	2	66	
ST CATHARINES, C		124,689	2,492	5	495	1,992	5	717	
THOROLD, C		17,542	235	1	48	186	1	82	
WAINFLEET, TP		6,040	58	-	14	44	-	19	
WELLAND, C		47,525	966	3	206	757	3	311	
WEST LINCOLN, TP		10,536	115	2	39	74	3	53	
PROVINCIAL HIGHWAY		-	1,754	11	484	1,259	11	829	
OTHER AREAS		-	481	6	113	362	6	176	
NIAGARA		385,396	9,256	41	2,159	7,056	44	3,435	265,417
BONFIELD, TP		1,863	1	-	1	-	-	1	
EAST FERRIS, TP		3,919	2	-	1	1	-	1	
MATTAWA, T		2,413	12	-	3	9	-	3	
NORTH BAY C	M	54,611	742	1	220	521	1	332	
STURGEON FALLS, T	M	5,952	102	1	21	80	1	34	
PROVINCIAL HIGHWAY		-	668	7	209	452	8	368	
OTHER AREAS		9,841	173	1	39	133	1	59	
NIPISSING		78,599	1,700	10	494	1,196	11	798	56,478
BRIGHTON, TP		3,285	1	-	-	1	-	-	
BRIGHTON, T		4,108	37	-	9	28	-	14	
CAMPBELLFORD, T		3,395	34	-	5	29	-	8	
COBOURG, T	M	14,643	280	-	73	207	-	107	
COLBORNE, VL		1,971	15	-	6	9	-	6	
CRAMAHE, TP		2,853	1	-	-	1	-	-	
HALDIMAND, TP		4,041	4	-	2	2	-	3	
HAMILTON, TP		9,211	3	-	1	2	-	4	
HOPE, TP		3,561	3	-	1	2	-	2	
MURRAY, TP		6,520	2	-	-	2	-	-	
PERCY, TP		3,082	2	-	2	-	-	2	

Table 4.1 Continued

Location		Estimated	Class of Accident				Persons		Motor Vehicle
		Population	Total		Personal	Property			Registrations
		(1991)*	Accidents	Fatal	Injury	Damage	Killed	Injured	
PORT HOPE, T	M	11,198	110	-	33	77	-	45	
SEYMOUR, TP		4,036	2	-	-	2	-	-	
PROVINCIAL HIGHWAY		-	680	10	229	441	14	427	
OTHER AREAS		2,065	497	3	137	357	3	197	
<b>NORTHUMBERLAND</b>		<b>73,969</b>	<b>1,671</b>	<b>13</b>	<b>498</b>	<b>1,160</b>	<b>17</b>	<b>815</b>	<b>52,568</b>
CUMBERLAND, TP		39,520	201	2	47	152	2	76	
WEST CARLETON, TP		14,366	110	3	29	78	3	50	
GLOUCESTER, C	M	99,277	1,192	-	262	930	-	362	
GOULBOURN, TP		15,573	149	3	38	108	3	71	
RIDEAU, TP		11,426	130	-	35	95	-	53	
KANATA, C		35,866	533	2	115	416	3	180	
NEPEAN, C	M	105,582	1,853	6	451	1,396	6	697	
OSGOODE, TP		13,541	123	-	39	84	-	66	
OTTAWA, C	M	308,366	8,174	13	2,100	6,061	14	2,853	
ROCKCLIFFE PARK, VL		2,328	23	-	3	20	-	4	
VANIER, C		18,053	366	-	95	271	-	124	
PROVINCIAL HIGHWAY		-	1,714	13	454	1,247	15	705	
OTHER AREAS		-	1,053	4	210	839	4	324	
<b>OTTAWA-CARLETON</b>		<b>663,898</b>	<b>15,621</b>	<b>46</b>	<b>3,878</b>	<b>11,697</b>	<b>50</b>	<b>5,565</b>	<b>388,298</b>
INGERSOLL, T	M	8,935	131	1	22	108	1	31	
NORWICH, TP	M	9,991	11	-	1	10	-	2	
S WEST OXFORD, TP		8,283	7	-	2	5	-	7	
TILLSONBURG, T	M	11,718	165	2	50	113	2	84	
WOODSTOCK, C	M	29,029	671	-	185	486	-	257	
ZORRA, TP		8,057	2	-	-	2	-	-	
PROVINCIAL HIGHWAY		-	759	9	227	523	11	430	
OTHER AREAS		13,993	618	3	195	420	3	306	
<b>OXFORD</b>		<b>90,006</b>	<b>2,364</b>	<b>15</b>	<b>682</b>	<b>1,667</b>	<b>17</b>	<b>1,117</b>	<b>68,361</b>
HIMSWORTH NORTH, TP		2,913	2	-	-	2	-	-	
PERRY, TP		1,896	1	-	-	1	-	-	
PROVINCIAL HIGHWAY		-	648	12	157	479	13	295	
OTHER AREAS		27,715	445	4	102	339	4	152	
<b>PARRY SOUND</b>		<b>32,524</b>	<b>1,096</b>	<b>16</b>	<b>259</b>	<b>821</b>	<b>17</b>	<b>447</b>	<b>33,865</b>
BRAMPTON, C		217,892	3,831	15	875	2,941	16	1,331	
CALEDON, T		33,538	794	6	216	572	6	349	
MISSISSAUGA, C		434,093	7,404	14	1,481	5,909	17	2,231	
PROVINCIAL HIGHWAY		-	3,331	16	725	2,590	21	1,198	
OTHER AREAS		-	270	-	58	212	-	80	
<b>PEEL</b>		<b>685,523</b>	<b>15,630</b>	<b>51</b>	<b>3,355</b>	<b>12,224</b>	<b>60</b>	<b>5,189</b>	<b>493,148</b>
LISTOWEL, T	M	5,382	93	1	11	81	1	13	
MITCHELL, T		3,366	34	-	9	25	-	11	

Table 4.1 Continued

Location		Estimated	Class of Accident				Persons		Motor Vehicle
		Population	Total		Personal	Property			Registrations
		(1991)*	Accidents	Fatal	Injury	Damage	Killed	Injured	
ST MARYS, T	M	5,482	69	1	19	49	1	30	
STRATFORD, C	M	27,311	535	-	154	381	-	216	
PROVINCIAL HIGHWAY		-	304	3	75	226	3	165	
OTHER AREAS		27,709	363	7	97	259	8	161	
<b>PERTH</b>		<b>69,250</b>	<b>1,398</b>	<b>12</b>	<b>365</b>	<b>1,021</b>	<b>13</b>	<b>596</b>	<b>47,725</b>
BELMONT & METHUEN, TP		2,794	3	-	2	1	-	4	
CAVAN, TP		5,300	1	-	-	1	-	-	
DOURO, TP		3,514	2	-	-	2	-	-	
HARVEY, TP		2,755	2	-	-	2	-	-	
LAKEFIELD, VL		2,456	29	-	6	23	-	12	
OTONABEE, TP		4,977	1	-	-	1	-	-	
PETERBOROUGH, C	M	67,823	1,040	-	365	675	-	555	
SMITH, TP		8,504	3	-	-	3	-	-	
PROVINCIAL HIGHWAY		-	508	2	147	359	2	272	
OTHER AREAS		17,865	624	7	185	432	11	294	
<b>PETERBOROUGH</b>		<b>115,988</b>	<b>2,213</b>	<b>9</b>	<b>705</b>	<b>1,499</b>	<b>13</b>	<b>1,137</b>	<b>81,552</b>
ALFRED, TP		1,999	4	-	1	3	-	1	
HAWKESBURY, T	M	9,547	275	2	46	227	2	70	
E HAWKESBURY, TP		3,090	1	-	-	1	-	-	
W HAWKESBURY, TP		2,862	5	-	1	4	-	2	
LORIGNAL, VL		2,052	11	-	5	6	-	6	
PLANTAGENET NORTH, TP		3,003	3	-	-	3	-	-	
PLANTAGENET SOUTH, TP		1,650	2	-	-	2	-	-	
VANKLEEK HILL, T		1,940	13	-	6	7	-	9	(Veh. Reg.
PROVINCIAL HIGHWAY		-	179	2	71	106	2	113	includes
OTHER AREAS		5,432	247	3	77	167	3	162	Russell)
<b>PRESCOTT</b>		<b>31,575</b>	<b>740</b>	<b>7</b>	<b>207</b>	<b>526</b>	<b>7</b>	<b>363</b>	<b>57,203</b>
AMELIASBURG, TP		5,154	3	-	-	3	-	-	
HALLOWELL, TP		4,168	12	-	2	10	-	2	
PICTON, T		4,067	83	-	14	69	-	23	
SOPHIASBURGH, TP		1,954	1	-	-	1	-	-	
PROVINCIAL HIGHWAY		-	118	2	19	97	2	36	
OTHER AREAS		6,922	267	2	57	208	2	83	
<b>PRINCE EDWARD</b>		<b>22,265</b>	<b>484</b>	<b>4</b>	<b>92</b>	<b>388</b>	<b>4</b>	<b>144</b>	<b>17,559</b>
ATIKOKAN, TP	M	3,805	14	-	2	12	-	2	
FORT FRANCES, T	M	8,682	220	1	46	173	1	64	
PROVINCIAL HIGHWAY		-	289	6	54	229	6	100	
OTHER AREAS		6,316	125	2	19	104	2	24	
<b>RAINY RIVER</b>		<b>18,803</b>	<b>648</b>	<b>9</b>	<b>121</b>	<b>518</b>	<b>9</b>	<b>190</b>	<b>17,286</b>
ALICE & FRASER, TP		3,716	1	-	-	1	-	-	
ARNPRIOR, T		6,095	103	1	19	83	1	24	

Table 4.1

Continued

Location		Estimated	Class of Accident				Persons		Motor Vehicle
		Population	Total		Personal	Property			Registrations
		(1991)*	Accidents	Fatal	Injury	Damage	Killed	Injured	
DEEP RIVER, T	M	4,175	16	-	2	14	-	3	
HORTON, TP		2,251	1	-	1	-	-	1	
MCNAB, TP		5,233	1	-	-	1	-	-	
PEMBROKE, C	M	13,379	343	-	80	263	-	124	
PETAWAWA, TP		8,145	4	-	2	2	-	3	
PETAWAWA, VL		5,291	8	-	2	6	-	2	
RENFREW, T	M	7,837	127	-	50	77	-	83	
WILBERFORCE, TP		1,684	1	-	1	-	-	1	
PROVINCIAL HIGHWAY		-	539	11	163	365	14	271	
OTHER AREAS		29,529	673	3	147	523	3	235	
RENFREW		87,335	1,817	15	467	1,335	18	747	68,060
CASSELMAN, VL		2,341	15	-	4	11	-	5	
CLARENCE, TP		8,834	7	-	-	7	-	-	
ROCKLAND, T		6,448	68	-	15	53	-	20	
PROVINCIAL HIGHWAY		-	119	-	36	83	-	78	(Veh. Reg.
OTHER AREAS		16,057	286	2	74	210	3	98	included in
RUSSELL		33,680	495	2	129	364	3	201	Prescott)
ADJALA, TP		4,356	3	-	-	3	-	-	
BARRIE, C	M	60,870	1,331	2	308	1,021	2	447	
BRADFORD W GWILLIMBURY, T	M	16,585	240	2	45	193	3	60	
COLLINGWOOD, T	M	12,667	297	1	68	228	1	112	
ELMVALE, VL		1,691	15	-	3	12	-	5	
ESSA, TP		13,142	3	-	1	2	-	1	
FLOS, TP		2,898	3	-	1	2	-	4	
INNISFIL, T	M	20,618	130	1	40	89	1	58	
MEDONTE, TP		5,581	4	-	2	2	-	2	
MIDLAND, T	M	13,114	280	-	77	203	-	119	
NEW TECUMSETH, T**		19,282	197	-	50	147	-	66	
ORILLIA, C	M	24,062	516	-	123	393	-	177	
PENETANGUISHENE, T	M	6,051	117	-	28	89	-	34	
PORT MCNICOLL, VL		2,046	12	-	4	8	-	6	
STAYNER, T		3,713	36	-	7	29	-	8	
SUNNIDALE, TP		2,718	2	-	-	2	-	-	
TAY, TP		6,289	4	-	1	3	-	1	
TINY, TP		8,552	7	1	-	6	1	2	
TOSORONTIO, TP		4,011	3	-	3	-	-	3	
WASAGA BEACH, T		5,798	135	-	39	96	-	59	
PROVINCIAL HIGHWAY		-	1,819	13	484	1,322	15	849	
OTHER AREAS		40,318	1,380	18	391	971	18	612	

\*\*\* Amalgamation of the following areas: Beeton, Alliston, Tottenham, Tecumseth.



Table 4.1

Continued

Location		Estimated Population (1991)*	Class of Accident				Persons		Motor Vehicle Registrations
			Total Accidents	Fatal	Personal Injury	Property Damage	Killed	Injured	
<b>SIMCOE</b>		<b>274,362</b>	<b>6,534</b>	<b>38</b>	<b>1,675</b>	<b>4,821</b>	<b>41</b>	<b>2,625</b>	<b>218,878</b>
CORNWALL, C	M	46,619	1,128	-	300	828	-	448	(Veh. Reg.
PROVINCIAL HIGHWAY		-	224	1	66	157	1	104	Incl. Dundas
OTHER AREAS		16,791	201	-	49	152	-	89	& Glengarry)
<b>STORMONT</b>		<b>63,410</b>	<b>1,553</b>	<b>1</b>	<b>415</b>	<b>1,137</b>	<b>1</b>	<b>641</b>	<b>73,836</b>
CAPREOL, T		3,684	25	-	1	24	-	3	
ESPANOLA, T	M	5,312	51	-	9	42	-	10	
NICKEL CENTRE, T		11,815	90	2	24	64	3	44	
ONAPING FALLS, T		5,303	22	-	4	18	-	5	
RAYSIDE-BALFOUR, T		14,606	138	2	37	99	3	63	
SUDBURY, C	M	90,402	2,463	5	663	1,795	5	997	
VALLEY EAST, T		21,149	208	1	75	132	1	121	
WALDEN, T		9,411	92	-	25	67	-	37	
PROVINCIAL HIGHWAY		-	800	15	241	544	16	415	
OTHER AREAS		11,799	479	4	124	351	4	183	
<b>SUDBURY</b>		<b>173,481</b>	<b>4,368</b>	<b>29</b>	<b>1,203</b>	<b>3,136</b>	<b>32</b>	<b>1,878</b>	<b>127,148</b>
GERALDTON, T		2,461	26	-	6	20	-	11	
LONGLAC, T		1,925	21	-	6	15	-	6	
MANITOUWADGE, TP		3,719	20	-	3	17	-	4	
MARATHON, T	M	4,838	36	-	5	31	-	7	
NIPIGON, TP		2,253	15	-	2	13	-	2	
OLIVER, TP		2,376	6	-	2	4	-	2	
PAIPOONGE, TP		2,866	1	-	-	1	-	-	
SCHREIBER, TP		1,865	1	-	-	1	-	-	
TERRACE BAY, TP	M	2,430	11	-	2	9	-	2	
THUNDER BAY, C	M	110,289	2,599	3	539	2,057	3	788	
PROVINCIAL HIGHWAY		-	1,056	18	269	769	19	420	
OTHER AREAS		7,334	293	1	66	226	1	96	
<b>THUNDER BAY</b>		<b>142,356</b>	<b>4,085</b>	<b>22</b>	<b>900</b>	<b>3,163</b>	<b>23</b>	<b>1,338</b>	<b>115,818</b>
ENGLEHART, T		1,702	5	-	-	5	-	-	
HAILEYBURY, T		4,819	34	-	4	30	-	5	
KIRKLAND LAKE, T	M	10,638	144	-	28	116	-	39	
NEW LISKEARD, T	M	5,406	105	-	20	85	-	26	
PROVINCIAL HIGHWAY		-	366	4	102	260	5	194	
OTHER AREAS		12,667	151	-	40	111	-	77	
<b>TIMISKAMING</b>		<b>35,232</b>	<b>805</b>	<b>4</b>	<b>194</b>	<b>607</b>	<b>5</b>	<b>341</b>	<b>27,337</b>
EAST YORK, BOROUGH		97,250	532	1	144	387	1	193	
ETOBICOKE, C		295,915	4,791	5	1,532	3,254	5	2,385	
NORTH YORK, C		541,796	11,867	17	3,143	8,707	17	4,950	
SCARBOROUGH, C		485,240	10,727	16	2,783	7,928	20	4,327	
TORONTO, C		598,939	18,270	21	5,219	13,030	21	7,217	
YORK, C		132,290	910	1	290	619	1	425	

Table 4.1 Continued

Location		Estimated	Class of Accident				Persons		Motor Vehicle
		Population	Total		Personal	Property			Registrations
		(1991)*	Accidents	Fatal	Injury	Damage	Killed	Injured	
PROVINCIAL HIGHWAY		-	9,581	14	1,821	7,746	15	2,883	
TORONTO, METRO	M	2,151,430	56,678	75	14,932	41,671	80	22,380	1,102,536
BOBCAYGEON, VL		2,327	12	-	4	8	-	6	
ELDON, TP		2,731	1	-	-	1	-	-	
EMILY, TP		6,110	5	-	2	3	-	2	
FENELON, TP		5,493	6	-	1	5	-	2	
FENELON FALLS, VL		1,799	22	-	3	19	-	3	
LINDSAY, T	M	16,206	377	-	89	288	-	129	
MANVERS, TP		5,006	1	-	-	1	-	-	
VERULAM, TP		3,689	5	-	1	4	-	1	
PROVINCIAL HIGHWAY		-	511	7	179	325	8	348	
OTHER AREAS		17,416	562	4	164	394	5	264	
VICTORIA		60,777	1,502	11	443	1,048	13	755	50,115
NORTH DUMFRIES, TP		6,541	104	2	37	65	3	62	
CAMBRIDGE, C		89,953	1,846	4	470	1,372	4	738	
KITCHENER, C		163,923	3,117	5	757	2,355	6	1,119	
WATERLOO, C		72,062	1,281	1	307	973	2	436	
WELLESLEY, TP		8,021	43	1	14	28	1	22	
WILMOT, TP		12,699	127	4	27	96	4	51	
WOOLWICH, TP		17,131	193	2	46	145	2	73	
PROVINCIAL HIGHWAY		-	1,072	11	276	785	16	499	
OTHER AREAS		-	341	2	86	253	4	133	
WATERLOO		370,330	8,124	32	2,020	6,072	42	3,133	244,576
ARTHUR, VL		2,033	28	-	4	24	-	5	
ELORA, VL		3,119	33	-	5	28	-	6	
ERAMOSA, TP		5,789	3	-	-	3	-	-	
ERIN, TP		7,263	7	-	2	5	-	2	
ERIN, VL		2,400	23	-	5	18	-	5	
FERGUS, T	M	7,657	116	1	28	87	1	33	
WEST GARAFRAXA, TP		3,147	2	1	1	-	2	2	
GUELPH, C	M	85,625	1,262	4	454	804	4	683	
GUELPH, TP		3,122	9	-	4	5	-	8	
HARRISTON, T	M	1,946	14	-	3	11	-	4	
MARYBOROUGH, TP		2,565	1	-	1	-	-	1	
MOUNT FOREST, T		4,095	52	-	10	42	-	12	
NICHOL, TP		3,907	2	-	1	1	-	3	
PALMERSTON, T	M	2,273	17	-	3	14	-	4	
PEEL, TP		4,238	1	-	1	-	-	1	
PUSLINCH, TP		4,843	1	-	1	-	-	1	
PROVINCIAL HIGHWAY		-	1,063	5	264	794	5	467	
OTHER AREAS		10,087	952	7	227	718	8	366	
WELLINGTON		154,109	3,586	18	1,014	2,554	20	1,603	109,275

Table 4.1 Continued

Location	Estimated	Class of Accident				Persons		Motor Vehicle
	Population	Total		Personal	Property			Registrations
	(1991)*	Accidents	Fatal	Injury	Damage	Killed	Injured	
ANCASTER, T	22,107	237	1	75	161	1	118	
DUNDAS, T	21,632	219	1	69	149	1	98	
FLAMBOROUGH, T	29,281	223	4	57	162	4	95	
GLANBROOK, TP	9,691	92	-	36	56	-	46	
HAMILTON, C	316,897	5,746	7	1,764	3,975	7	2,587	
STONE CREEK, C	49,204	517	-	177	340	-	271	
PROVINCIAL HIGHWAY	-	1,577	8	433	1,136	10	780	
OTHER AREAS	-	105	-	23	82	-	40	
HAMILTON-WENTWORTH	448,812	8,716	21	2,634	6,061	23	4,035	265,696
AURORA, T	27,840	383	1	86	296	1	113	
GEORGINA, T	27,838	326	2	70	254	2	99	
E GWILLIMBURY, T	17,346	310	2	79	229	3	116	
KING, TP	17,444	276	1	57	218	1	82	
MARKHAM, T	145,325	2,162	2	359	1,801	2	569	
NEWMARKET, T	42,932	657	-	141	516	-	223	
RICHMOND HILL, T	74,007	943	1	171	771	1	246	
VAUGHAN, C	106,460	1,822	9	381	1,432	9	608	
WHITCHURCH STOUFFVILLE , T	17,403	221	-	61	160	-	93	
PROVINCIAL HIGHWAY	-	3,619	13	885	2,721	14	1,433	
OTHER AREAS	-	642	-	113	529	-	156	
YORK	476,595	11,361	31	2,403	8,927	33	3,738	365,059

<b>Legend</b>	<b>T</b>	town	<b>Other Areas -</b>	Jurisdictions with less than 1,500 population	<b>M</b> Municipal Police Force
	<b>C</b>	city			
	<b>VL</b>	village			
	<b>TP</b>	township			

\* Source: Ontario Ministry of Municipal Affairs Municipal Directory 1991

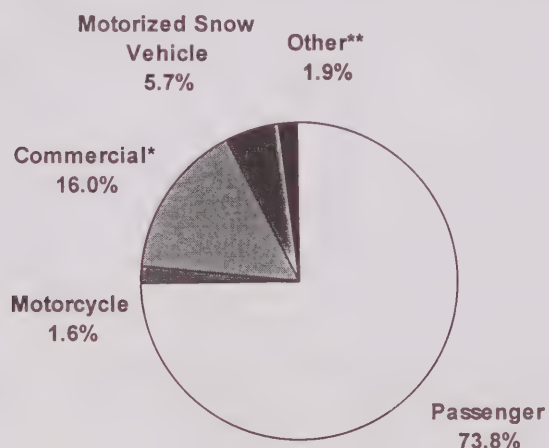
Population data in this table refers to persons residing in a municipality on a permanent basis.

The method used in determining the population is different from previous methods used.



## 5

## The Vehicle

**Vehicle Population by Vehicle Class in Ontario 1994**

\* Excludes Single Application Vehicle Registrations.

\*\* Other - includes mopeds, buses and off-road vehicles.



**5a. Vehicles in Accidents****Table 5.1 Type of Vehicle Involved in All Accidents 1994**

Type of Vehicle	Class of Accident			Total
		Personal	Property	
	Fatal	Injury	Damage	
Passenger Car	883	79,697	223,928	304,508
Passenger Car & Trailer	3	139	501	643
Truck	371	20,604	67,362	88,337
Truck & Trailer	17	514	1,739	2,270
Tractor & Semi-trailer	92	1,400	4,966	6,458
Motorcycle	55	1,709	515	2,279
Bus	13	673	1,731	2,417
School Bus/Vehicle	10	285	1,073	1,368
Other - Or not Known	14	831	7,801	8,646
Non Motor Vehicle	51	3,786	1,444	5,281
<b>Total</b>	<b>1,509</b>	<b>109,638</b>	<b>311,060</b>	<b>422,207</b>

In 1988, major revisions were made in the recording of motor vehicle accident data. The above table now reflects a consolidation of various types of vehicles and/or trailers. Therefore, valid conclusions cannot be made when comparing these data to that of the years previous to 1988.

**Table 5.2** Condition of Vehicle by  
Class of Accident 1994

Condition of Vehicle	Class of Accident			Total
		Personal	Property	
	Fatal	Injury	Damage	
No Apparent Defect	1,409	104,373	289,947	395,729
Service Brakes Defective	1	205	385	591
Steering Defective	1	16	59	76
Tire Puncture or Blow Out	-	84	260	344
Tire Tread Insufficient	-	63	63	126
Headlamps Defective	-	11	19	30
Other Lamps or Reflectors Defective	-	35	71	106
Engine Controls Defective	-	17	62	79
Wheels or Suspension Defective	1	30	88	119
Vision Obscured	-	5	21	26
Trailer Hitch Defective	-	1	21	22
Other Defects	37	795	2,062	2,894
Unknown	60	4,003	18,002	22,065
<b>Total</b>	<b>1,509</b>	<b>109,638</b>	<b>311,060</b>	<b>422,207</b>

**Table 5.3** Model Year of Vehicle by Class of  
Accident 1994

Model Year of Vehicle	Class of Accident			Total
		Personal	Property	
	Fatal	Injury	Damage	
1995	6	537	1,598	2,141
1994	94	5,692	16,679	22,465
1993	109	7,918	23,273	31,300
1992	114	7,651	23,809	31,574
1991	113	7,683	22,720	30,516
1990	125	8,389	25,580	34,094
1989	148	9,954	28,571	38,673
1988	122	10,204	29,731	40,057
1987	135	9,055	25,424	34,614
1986	106	9,329	25,479	34,914
1985 and earlier	386	27,086	72,151	99,623
Unknown	51	6,140	16,045	22,236
<b>Total</b>	<b>1,509</b>	<b>109,638</b>	<b>311,060</b>	<b>422,207</b>

**Table 5.4 Insurance Status of Vehicle by Class of Accident 1994**

Insurance	Class of Accident			Total
		Personal	Property	
	Fatal	Injury	Damage	
Insured	1,377	99,749	287,348	388,474
Not Insured	62	2,236	2,599	4,897
Unknown	70	7,653	21,113	28,836
<b>Total</b>	<b>1,509</b>	<b>109,638</b>	<b>311,060</b>	<b>422,207</b>

## 5b. Putting the Vehicle in Context

**Table 5.5** Vehicle Population by  
Type of Vehicle 1994

Vehicle Class	
Passenger	5,069,383
Motorcycle	105,835
Moped	3,491
Commercial*	1,059,381
Bus	18,895
School Bus	9,362
Motorized Snow Vehicle	391,847
Off-Road Vehicle	101,954
Road Building Machinery	813
Permanent Apparatus	3,553
Farm Trucks	33,914
<b>Total</b>	<b>6,798,428</b>

**Table 5.6** Selected Types of Vehicles by Model Year 1994

Vehicle Class	Model Years											Total
	95	94	93	92	91	90	89	88	87	86	85+	
Passenger	124,776	331,014	365,630	393,500	379,780	402,919	441,678	457,325	410,702	430,979	1,331,080	5,069,383
Motorcycle	458	2,674	3,494	2,897	2,628	2,942	3,107	3,390	3,483	6,226	74,536	105,835
Moped	-	8	15	9	25	23	29	8	44	40	3,290	3,491
Commercial*	21,251	68,734	57,710	58,694	59,707	81,375	100,837	114,349	88,030	86,430	360,471	1,097,588
Bus	445	1,385	1,681	2,193	2,299	2,730	2,825	2,889	2,749	1,921	7,213	28,330
Motorized Snow Vehicle	13,326	15,515	13,775	11,019	15,648	17,389	17,259	15,099	12,056	9,682	251,079	391,847
Off-Road Vehicle	1,215	3,611	5,059	4,869	4,926	5,737	4,680	4,117	7,647	12,043	48,050	101,954
<b>Total</b>	<b>161,471</b>	<b>422,941</b>	<b>447,364</b>	<b>473,181</b>	<b>465,013</b>	<b>513,115</b>	<b>570,415</b>	<b>597,177</b>	<b>524,711</b>	<b>547,321</b>	<b>2,075,719</b>	<b>6,798,428</b>

\* Excludes Single Application Vehicle Registrations (SAVR - 24,023 vehicles).

Table 5.7 Vehicle Damage Level 1994

Damage	Class of Accident			Total
		Personal	Property	
	Fatal	Injury	Damage	
None	77	10,457	18,378	28,912
Light	144	28,545	127,764	156,453
Moderate	161	29,194	107,521	136,876
Severe	233	24,329	30,353	54,915
Demolished	857	12,355	5,647	18,859
Unknown	37	4,758	21,397	26,192
<b>Total</b>	<b>1,509</b>	<b>109,638</b>	<b>311,060</b>	<b>422,207</b>

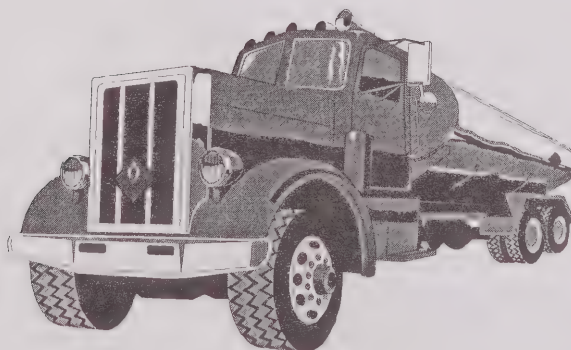
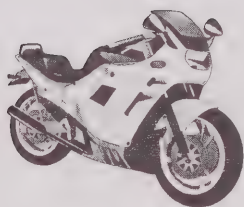
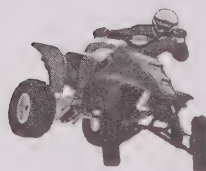
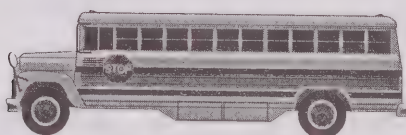
**Vehicle Damage**

<b>None</b>	No visible damage.
<b>Light</b>	Slight or superficial damage. Includes scratches, small dents, minor cracks in glass that do not affect safety or performance of vehicle.
<b>Moderate</b>	Unsafe conditions result from damage. Vehicle must be repaired to make its condition meet requirements law. Vehicle can be driven off road or limited distance but doing so would be unsafe.
<b>Severe</b>	Vehicle cannot be driven. Requires towing. Would normally be repaired.
<b>Demolished</b>	Vehicle damaged to the extent that repairs would not be acceptable.



## 6

## Vehicles of Special Interest



**6a. Motorcycles**

**Table 6.1 Motorcyclists\***  
**Killed and Injured**  
**1990-1994**

Year	Drivers		Passengers	
	Killed	Injured	Killed	Injured
1990	68	2,392	6	580
1991	55	2,183	9	487
1992	55	1,814	6	404
1993	54	1,706	5	398
1994	50	1,526	4	324

\* Excludes moped drivers and passengers.

**Table 6.2 Selected Factors**  
**Relevant to Fatal Motorcycle**  
**Accidents 1994**

<b>Factors</b>	<b>%</b>
Unlicensed Motorcycle Drivers	7
Under 25 years Old	30
Alcohol Used	
Ability Impaired Alcohol > .08	34
Had Been Drinking	14
Unknown	13
Helmet Not Worn (Fatalities)	18
Motorcycle Driver Error	
Speed Too Fast/Lost Control	46
Other Error	23
Single Vehicle Accidents	41
Day/Night	50/50
Weekend	35

**6b. School Vehicles****Table 6.3 Pupils Transported Daily, Total Accidents and Injury Rate per 100,000 Pupils -  
School Years 1989/90-1993/94**

	School Year	Pupils	Total	Injury Rate per 100,000 Pupils	
		Transported	Number of		
		Daily	Accidents	Fatals	Non-Fatal
	1989/90	771,729	1,444	0.1	30
	1990/91	789,963	1,315	0.4	32
	1991/92	794,941	1,194	0.2	18
	1992/93	796,347	1,174	-	20
	1993/94	798,926	1,293	-	27

**Table 6.4 School Vehicle Type by Nature of  
Accident 1993/94**

School Vehicle Type	Nature of Accident				Total	Five Year Total
	Fatal	Pupil Injury	Non-Pupil Injury	Property Damage	Number of Accidents	(1989/90 1993/94)
School Bus	9	46	177	873	1,105	5,477
School Van	-	6	21	127	154	788
Other School Vehicles	-	6	4	24	34	155
<b>Total Accidents</b>	<b>9</b>	<b>58</b>	<b>202</b>	<b>1,024</b>	<b>1,293</b>	<b>6,420</b>

**Table 6.5 Pupil Injury by Accident Event and Vehicle Type 1993/94**

School Vehicle Type	Accident Event						Total		Five Year Total	
	Crossing		Within		Other				(1989/90	
	Road		School Vehicle						1993/94)	
	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured
School Bus	-	4	2	194	1	4	3	202	8	913
School Van	-	-	-	12	-	1	-	13	-	86
Other School Vehicles	-	-	-	4	-	-	-	4	-	21
<b>Total</b>	<b>-</b>	<b>4</b>	<b>2</b>	<b>210</b>	<b>1</b>	<b>5</b>	<b>3</b>	<b>219</b>	<b>8</b>	<b>1,020</b>

## 6c. Trucks

Table 6.6 Class of Truck Accident  
1990-1994

Year	Class of Accident			Total
	Fatal	Personal Injury	Property Damage	
1990	393	16,493	45,570	62,456
1991	389	13,843	41,694	55,926
1992	361	13,563	43,330	57,254
1993	419	13,312	42,915	56,646
1994	326	13,335	43,906	57,567
<b>Total</b>	<b>1,888</b>	<b>70,546</b>	<b>217,415</b>	<b>289,849</b>

Table 6.8 Driver Licence Class Required -  
Accidents, Registered Trucks and  
Accident Rate 1994

Driver Licence Required	Accidents	Registered Vehicles	Accident Rate
G	46,687	962,406	4.9
D	3,453	52,095	6.6
A*	7,427	107,110 **	6.9
<b>Total</b>	<b>57,567</b>	<b>1,121,611</b>	<b>5.1</b>

\* Tractor/trailer combination only.

\*\* Includes vehicles registered under the SAVR system  
(24,023 vehicles).Data for truck/trailer combinations requiring Class "A"  
driver licence are not reported separately in the Vehicle  
Registration System.Table 6.7 Driver Licence Class Required  
by Class of Truck Accident 1994

Driver Licence Required	Class of Accident			Total
	Fatal	Personal Injury	Property Damage	
G	198	10,968	35,521	46,687
D	28	717	2,708	3,453
A*	100	1,650	5,677	7,427
<b>Total</b>	<b>326</b>	<b>13,335</b>	<b>43,906</b>	<b>57,567</b>

\* Tractor/trailer combination only.

\*\* Includes vehicles registered under the SAVR - 24,023 system

Data for truck/trailer combinations requiring Class "A" driver licence  
are not reported separately in the Vehicle Registration System.Table 6.9 Selected Factors Relevant to Fatal  
Truck Accidents 1994

Factors	Driver Licence Required		
	Class G	Class D	Class A
Driver Condition in			
Fatal Accidents:			
Alcohol Involved	26.8%	3.6%	-
Driving Properly	42.4%	67.9%	71.0%
Single Vehicle	30.8%	14.3%	16.0%
Vehicle Defect Present*	1.5%	3.6%	6.0%
Urban Area	29.8%	39.3%	14.0%
Daylight	53.5%	75.0%	62.0%

\* Excludes unknown category

**6d. Off-road Vehicles**

**Table 6.10 Accident Location  
by Off-Road Vehicle Drivers  
Killed and Injured 1990-1994**

Location	Killed					Injured				
	1990	1991	1992	1993	1994	1990	1991	1992	1993	1994
On-Highway	-	4	-	3	3	31	34	36	22	22
Off-Highway	3	5	2	2	3	135	139	67	68	63
<b>Total</b>	<b>3</b>	<b>9</b>	<b>2</b>	<b>5</b>	<b>6</b>	<b>166</b>	<b>173</b>	<b>103</b>	<b>90</b>	<b>85</b>

**Table 6.11 Accident Location  
by Off-Road Vehicle Passengers  
Killed and Injured 1990-1994**

Location	Killed					Injured				
	1990	1991	1992	1993	1994	1990	1991	1992	1993	1994
On-Highway	-	1	-	1	-	10	9	9	4	6
Off-Highway	-	-	2	-	-	43	44	17	17	23
<b>Total</b>	<b>-</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>-</b>	<b>53</b>	<b>53</b>	<b>26</b>	<b>21</b>	<b>29</b>

For the purposes of this publication, off-road vehicles include dune buggies, off-road motorcycles (dirt bikes), and three and four wheeled all-terrain vehicles. Off-road vehicles were first required to be registered on June 1, 1984.

**Table 6.12 Registered Off-Road  
Vehicle 1990-1994**

Year	Vehicles Registered
1990	70,274
1991	86,259
1992	92,020
1993	97,104
1994	101,954

**Table 6.13 Selected Factors Relevant to  
All Off-Road Vehicle  
Accidents 1994**

Factors	%
Drivers Under 25 Years of Age	61
Alcohol Used	15
Speeding	25
Helmet Not Worn	48
Daytime	76
Two-Wheeled	17
Three-Wheeled	20
Four-Wheeled	63



## 6e.

## Motorized Snow Vehicles

**Table 6.14 Accident Location by Motorized Snow Vehicle Drivers Killed and Injured -**  
**Riding Seasons 1989/90-1993/94**

Location	Killed					Injured				
	89/90	90/91	91/92	92/93	93/94	89/90	90/91	91/92	92/93	93/94
On-Highway	2	5	1	3	2	51	37	61	37	62
Off-Highway	31	24	11	22	9	250	279	195	121	237
<b>Total</b>	<b>33</b>	<b>29</b>	<b>12</b>	<b>25</b>	<b>11</b>	<b>301</b>	<b>316</b>	<b>256</b>	<b>158</b>	<b>299</b>
% on-Highway	6	17	8	12	18	17	12	24	23	21

**Table 6.15 Accident Location by Motorized Snow Vehicle Passengers Killed and Injured -**  
**Riding Seasons 1989/90-1993/94**

Location	Killed					Injured				
	89/90	90/91	91/92	92/93	93/94	89/90	90/91	91/92	92/93	93/94
On-Highway	-	1	1	-	1	15	7	29	16	25
Off-Highway	5	7	4	2	3	101	98	97	82	63
<b>Total</b>	<b>5</b>	<b>8</b>	<b>5</b>	<b>2</b>	<b>4</b>	<b>116</b>	<b>105</b>	<b>126</b>	<b>98</b>	<b>88</b>

**Table 6.16 Registered Motorized**  
**Snow Vehicles 1990-1994**

Year	Registered Motorized Snow Vehicles 1990-1994
1990	328,343
1991	346,932
1992	366,730
1993	383,083
1994	391,847

**Table 6.17 All Motorized Snow Vehicle**  
**Accidents 1993/94**

Factors	%
Unlicensed Operators	11
Rider Error; Speed too Fast	35
Alcohol Used	24
Surface Condition; Icy or Packed Snow	54

## 6f. Bicycles

**Table 6.18 Bicyclists\***

Killed and Injured				
1990-1994				
	Drivers		Passengers	
Year	Killed	Injured	Killed	Injured
1990	29	3,518	-	172
1991	27	3,797	-	178
1992	27	3,333	-	168
1993	31	3,290	-	123
1994	27	3,283	-	107

\* Only accidents involving a bicycle and a motor vehicle or a streetcar are required to be reported. These tables do not include bicycle only bicycle/bicycle or bicycle/pedestrian accidents.

**Table 6.20 Selected Factors**

Relevant to	
All Bicycle Accidents 1994	
Factors	%
Driving Properly (Bicyclist)	39
Driving Properly (Motor Vehicle Driver)	50
Intersection Related	64
Going Ahead (Bicyclist)	79
Alcohol Related (Bicyclist)	3
No Apparent Vehicle Defect (Bicycle)	89
Clear Visibility	93
Weekend	21

**Table 6.19 Age of Bicyclist\* Involved in Accidents by  
Light Condition 1994**

Light Condition	Age Groups						Total
	0 - 5	6 - 15	16 - 30	31 - 60	61+	UK	
Daylight	262	1,165	1,043	591	105	63	3,229
Dawn	1	3	8	7	-	-	19
Dusk	8	54	50	30	1	4	147
Dark	35	90	229	124	4	11	493
<b>Total</b>	<b>306</b>	<b>1,312</b>	<b>1,330</b>	<b>752</b>	<b>110</b>	<b>78</b>	<b>3,888</b>

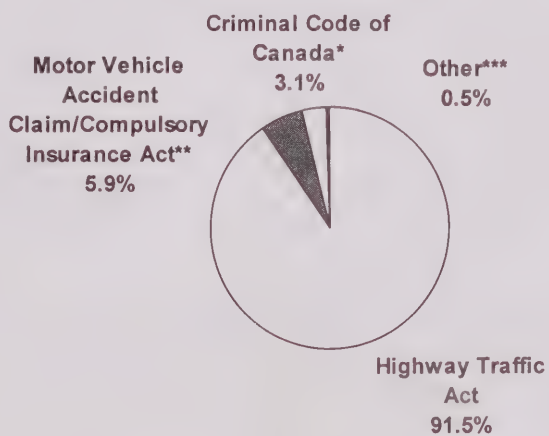
\* Only accidents involving a bicycle and a motor vehicle or a streetcar are required to be reported. These tables do not include bicycle only, bicycle/bicycle or bicycle/pedestrian accidents.



## 7

## Conviction and Suspension Data

Per Cent of Motor Vehicle Related Convictions in Ontario, 1994



\* This figure does not include convictions for young offenders under the Criminal Code.

\*\* Includes manually recorded convictions.

\*\*\* Includes Municipal By-Law, Motorized Snow Vehicles Act, Off-Road Vehicle convictions and Regulation H.T.A..

**7a. Conviction Data****Table 7.1 Summary of Motor Vehicle  
Related Convictions 1994**

Convictions**	Number
Highway Traffic Act	805,207
Regulation H.T.A	2,240
Criminal Code of Canada*	28,003
Municipal By-Law	319
Motor Vehicle Accident Claim/Compulsory Insurance Act**	52,770
Motorized Snow Vehicles Act	981
Off-Road Vehicle	497
<b>Total</b>	<b>890,017</b>

\* This figure does not include 252 convictions for young offenders under the Criminal Code.

\*\* Includes manually recorded convictions.

**Table 7.2 Motor Vehicle Convictions  
Related to the  
Highway Traffic Act 1994**

Convictions	Number
Equipment	15,023
Administrative*	89,723
Seat Belt (Driver & Passenger)**	61,606
Other Non-Pointable Convictions ***	7,626
Speeding (< 16km/h, non-pointable)****	226,572
Pointable Speeding	206,735
Other Pointable Convictions (2 - 4 pt)	132,071
Other Pointable Convictions (5 - 7 pt)	10,480
Driving While Suspended	12,157
<b>Total</b>	<b>761,993</b>

\* Non-moving, weight, vehicle registration, licence renewal, etc..

\*\* Failure to wear seat belt convictions registered against passengers over 16 are no longer included.

\*\*\* Now includes some out of province convictions.

\*\*\*\* Excludes Photo Radar Convictions

**Table 7.3 Motor Vehicle Convictions  
Related to the  
Criminal Code 1994\***

Convictions	Number
Alcohol Related**	23,492
Criminal Negligence	21
Fail to Remain at Accident	750
Driving While Disqualified	2,619
Dangerous Driving	1,121
Motor Manslaughter	-
<b>Total</b>	<b>28,003</b>

\* Does not include 252 convictions for young offenders.

\*\* Includes some out of province convictions.



**7b. Suspension Data**

**Table 7.4**                      **Mandatory Suspensions Related to  
Criminal Code Convictions  
Issued 1994**

<b>Suspensions</b>	<b>3 Months</b>	<b>6 Months</b>	<b>1 Year</b>	<b>2 Years</b>	<b>3 Years</b>	<b>Total</b>
Criminal Negligence	-	-	11	2	6	19
Fail to Remain	-	-	337	262	134	733
Dangerous Driving	-	-	411	430	250	1,091
Impaired Driving	-	-	4,427	5,654	3,198	13,279
Blood/Alcohol over .08	-	-	3,246	3,484	1,939	8,669
Failure to Provide Breath Sample	-	-	592	553	299	1,444
Failure to Provide Roadside Breath Sample	-	-	-	-	-	-
Drive while Disqualified or Prohibited	-	-	1,466	1,040	126	2,632
<b>Total</b>	-	-	<b>10,490</b>	<b>11,425</b>	<b>5,952</b>	<b>27,867</b>

New federal and provincial laws relating to drinking and driving took effect December 20, 1985. Individuals convicted of offences which occurred prior to that date are not subject to the longer minimum mandatory suspension periods of the new laws.

Previous minimum suspension periods were 3 months for a first conviction, 6 months for the second conviction within five years and 3 years for a third conviction within five years. The current minimum suspension periods are 1 year for a first conviction, 2 years for a second conviction within five years and 3 years for a third conviction within five years.

**Table 7.5**                      **Mandatory Suspensions Related to  
Criminal Code Convictions at Year End 1994\*\***

<b>Suspensions</b>	<b>3 Months</b>	<b>6 Months</b>	<b>1 Year</b>	<b>2 Years</b>	<b>3 Years</b>	<b>Total</b>
Criminal Negligence	-	2	34	33	23	92
Fail to Remain	-	-	414	472	309	1,195
Dangerous Driving	-	-	623	792	500	1,915
Impaired Driving	-	-	5,807	8,476	5,229	19,512
Blood/Alcohol over .08	-	-	3,858	4,969	2,958	11,785
Failure to Provide Breath Sample	-	-	720	952	647	2,319
Failure to Provide Roadside Breath Sample	-	-	-	-	-	-
Drive while Disqualified or Prohibited	-	-	3,877	3,332	225	7,434
<b>Total</b>	-	<b>2</b>	<b>15,333</b>	<b>19,026</b>	<b>9,891</b>	<b>44,252</b>

\*\* This table reflects the suspensions in effect at year end. The total exceeds the number of suspensions issued in 1994 due to the fact that some suspensions are in effect for more than one year.

**Table 7.6** Demerit Point Suspensions by Driver Age 1994

Driver Age	Demerit Point Suspensions		
	Probationary	Non-Probationary	Non-Probationary
		First	Second
		Accumulation	Accumulation
16	230	-	-
17	1,303	-	-
18	1,561	3	-
19	912	21	-
20-24	1,948	360	18
25-34	1,708	374	28
35-44	485	130	10
45-54	95	67	2
55-64	26	17	1
65-74	3	4	1
75 +	-	-	-
<b>Total</b>	<b>8,271</b>	<b>976</b>	<b>60</b>

Newly licensed drivers are covered by the probationary licence system until they have successfully completed two one-year periods of suspension-free driving. Probationary drivers are suspended for 30 days after accumulating 6 or more demerit points.

Non-probationary drivers are suspended for 30 days on the first accumulation of 15 demerit points and are suspended for 6 months on the second accumulation of 15 points within 2 years.

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## 8 Appendix

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### 8a. Glossary

**Ability Impaired Alcohol:**

Driving while one's ability is impaired by alcohol or driving with a blood alcohol concentration exceeding 80 milligrams in 100 millilitres of blood.

**Alcohol Involved:**

This category includes both drivers reported as ability impaired by alcohol and drivers reported as "had been drinking".

**Class L Driver's Licence:**

The learner's licence that allows the holder to drive any motor vehicle that requires a class G driver's licence (e.g. an automobile) on the road, providing that the holder of a class G licence or any other higher licence class (A,B,C,D,E and F) is occupying the seat beside him/her for the purpose of giving instruction.

**Class R Driver's Licence:**

The learner's licence that allows the holder to operate a motorcycle for the purposes of training. Class R licensed motorcyclists are prohibited from nighttime riding, carrying passengers and traveling on high speed highways with exceptions of Highways 11 and 17.

**Conviction:**

Awarded when a person pleads guilty to, or is found guilty of, an offence related to a motor vehicle under any Act of the Ontario Legislature or its accompanying regulations, under the Parliament of Canada or any accompanying order, or under any municipal by-law.

**Driver:**

Unless specified otherwise, any person, whether licensed or not, considered to be in care and control of a vehicle at the time of an accident.

**Fatal Accident:**

A motor vehicle accident in which at least one person sustains bodily injuries resulting in death.\*

**Had Been Drinking:**

Driving after having drunk an amount of alcohol not considered sufficient to be legally impaired or with a measured blood alcohol count of greater than zero but less than 80 milligrams.

**Highway:**

A common and public highway, street, avenue etc., any part of which is intended for public use or used by the general public for the passage of vehicles and including the area between the property lines.

**Kilometres Traveled:**

Vehicle fleet mileage is estimated on the basis of taxed gasoline and motor fuel sales. Total litres sold are converted to kilometres traveled based on a conversion factor of 22.0 kilometres per gallon.

**Major Injury:**

A non-fatal injury severe enough to require that the injured person be admitted to hospital, even if for observation only.

**Minimal Injury:**

A non-fatal injury, including minor abrasions and bruises, which does not necessitate the injured person going to a hospital.

**Minor Injury:**

A non-fatal injury requiring medical treatment at a hospital emergency room, but not requiring hospitalization of the involved person.

**Motor Vehicle Accident:**

Any incident in which bodily injury or damage to property is sustained as a result of the movement of a motor vehicle, or of its load while a motor vehicle is in motion.

**Off-Highway Accidents:**

An off-highway accident involving any of the motorized vehicles which are covered by legislation under the Highway Traffic Act, the Motorized Snow Vehicles Act, and the Off-Road Vehicles Act.

**On-Highway Accidents:**

A motor vehicle accident which occurs on the highway between the property lines.

**Pedestrian:**

Any person not riding in or on a vehicle involved in a motor vehicle accident.

**Personal Injury Accident:**

A motor vehicle accident in which at least one person involved sustains bodily injuries not resulting in death.

**Property Damage Accident:**

A motor vehicle accident in which no person sustains bodily injury, but in which there is damage to any public property or damage to private property\*\* including damage to the motor vehicle or its load.

**Reportable Accident:**

Any fatal or injury accident, or any accident in which there is any damage to public property or damage to private property in excess of a monetary value prescribed in law.\*\*

**Suspension:**

Withdrawal of a drivers privilege to operate motor vehicle for a prescribed period of time.

\*Prior to January 1, 1982, fatal accident statistics included deaths attributed to accidental injuries up to one year after the accident. Since that date, only deaths from injuries within thirty days of the accident have been included.

\*\*The minimum reportable level for property damage only accident rose from \$200 to \$400 on January 1, 1978 and rose again to \$700 on January 1, 1985.









